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Aphid-transmitted viruses and their vectors of the world

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Aphid-transmitted viruses and their vectors of the world

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Cover illustration
The dots on the map represent Agriculture Canada research establishments.

SUMMARY

This bulletin reports all recognised aphid-transmitted viruses of the world, their vectors, natural hosts and geographical distribution. Five catalogues are included. It acts as an informational source for aphid-transmitted viruses and their vectors on a world-wide basis.

RÉSUMÉ

Ce bulletin traite de tous les virus, maintenant reconnus, qui sont transmis par les aphides ainsi que de leurs vecteurs, leurs hôtes et de la répartition géographique. Il s'agit en somme d'une source de renseignements sur les virus transmis par les aphides et leurs vecteurs, à l'échelle mondiale. L'ouvrage comprend cinq catalogues.

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INTRODUCTION

Plant viruses are among the most important, complex and extensively distributed plant pathogens in the world, and aphids are by far the largest group of known plant-virus vectors. With the viruses they transmit, aphids are a potential threat to agricultural crops. For epidemiological studies, it is important to know all the aphids that transmit a certain virus and vice versa.

Kennedy, Day and Eastop's book "A conspectus of aphids as vectors of plant viruses" published in 1962 is the only publication dealing with a large body of information accumulated on aphids and plant viruses. Since then the number of aphid vectors and plant viruses has increased so greatly that people unfamiliar with aphid taxonomy and virology have been confused by the synonymy. In the past three decades, through the efforts of the scientists who wrote the twenty-one sets of CMI-AAB and AAB Descr. Pl. Viruses (1970-88), the four reports and supplement of ICTV (Wildy 1971; Fenner 1976; Matthews 1979, 1982; and Brown 1989) and the VIDE microfiche (Crabtree and Gibbs 1989), the virus nomenclature has been standardized. As well, Eastop and Hille Ris Lambers (1976) has brought uniformity to the nomenclature of aphids.

This bulletin accumulates all recognised aphid-transmitted virus records from the "Conspectus" (Kennedy et al. 1962), CMI/AAB and AAB Descr. Pt. Viruses (1970-1988), "Aphids on the world's crops" (Blackman and Eastop 1984) and the VIDE (Crabtree and Gibbs 1989). Standardized authoritative nomenclatures for both the aphid-transmitted viruses, their vectors and natural hosts are provided in accordance with the above mentioned literature. It mainly consists of five catalogues: firstly, a catalogue of all recognised aphid-transmitted viruses, listing under each the aphid vectors; secondly, a reciprocal catalogue of aphids, listing under each the viruses transmitted; thirdly, a virus catalogue, listing under each the natural hosts; fourthly, a reciprocal catalogue of natural hosts, listing under each the viruses infected; and fifthly, a catalogue of the geographical distribution of aphid-transmitted viruses.

This bulletin is a quick reference for economic, applied and agricultural entomologists and virologists, at universities, research institutes and advisory centres throughout the world.

Ajuga virus
Ungrouped
Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Alfalfa (Michigan) virus
Luteovirus
Acyrthosiphon pisum (Harris)
P, Crabtree & Gibbs 1989
Aphis craccivora Koch
P, Crabtree & Gibbs 1989
Aulacorthum solani (Kaltenbach)
P, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
P, Crabtree & Gibbs 1989

Alfalfa mosaic virus
Alfalfa mosaic virus group
Acyrthosiphon pisum (Harris)
N, Kennedy et al. 1962
Aphis craccivora Koch
N, Kennedy et al. 1962
Aphis fabae Scopoli
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Aphis spiraecola Patch
*"N", Blackman & Eastop 1984
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Microlophium primulae (Theobald)
N, Kennedy et al. 1962
Myzus ornatus Laing
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962
Nearctaphis bakeri (Cowen)
N, Kennedy et al. 1962
Neotoxoptera violae (Pergande)
N, Kennedy et al. 1962
Therioaphis trifolii (Monell)
N, Kennedy et al. 1962

Alfalfa mosaic virus [Viburnum strain]
Alfalfa mosaic virus group
Aphis spiraecola Patch
"N", Blackman & Eastop 1984

Alsike clover mosaic virus
Ungrouped
Myzus persicae (Sulzer)
"N", Kennedy et al. 1962

Alstroemeria mosaic virus
Potyvirus (1)
Myzus persicae (Sulzer)
N, Brunt & Phillips 1981

Alstroemeria virus
**"Ilarvirus"
Myzus persicae (Sulzer)
N, Brunt & Phillips 1981

American hop latent virus
Carlavirus
Phorodon humuli (Schrank)
N, Adams & Barbara 1982

Araujia mosaic virus
Potyvirus (1)
Aphis nerii Boyer de Fonscolombe
N, Crabtree & Gibbs 1989
Aphis spiraecola Patch
N, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Arracacha virus Y
Potyvirus (1)
Aphis gossypii Glover
N, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Artichoke latent virus
"Carlavirus"
Myzus persicae (Sulzer)
N, Kennedy et al. 1962
"Potyvirus (1)"
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Asystasia gangetica mottle virus
Potyvirus (1)

Unknown sp.
N, Crabtree & Gibbs 1989

Azuki bean mosaic virus
Potyvirus (1)
Aphis craccivora Koch
N, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Banana bunchy top virus
"Luteovirus"
Pentalonia nigronervosa Coquerel
P, Kennedy et al. 1962

Barley yellow dwarf virus
Luteovirus
Aulacorthum circumflexum (Buckton)
P, Kennedy et al. 1962
Ceruraphis eriophori (Walker)
P, Kennedy et al. 1962
Diuraphis noxia (Mordvilko ex Kurdjumov)
"P", Blackman & Eastop 1984
Metopolophium dirhodum (Walker)
P, Kennedy et al. 1962
Myzus persicae (Sulzer)
P, Crabtree & Gibbs 1989
Rhopalosiphum insertum (Walker)
P, Kennedy et al. 1962
Rhopalosiphum maidis (Fitch)
P, Kennedy et al. 1962
Rhopalosiphum padi (Linnaeus)
P, Kennedy et al. 1962
Rhopalosiphum rufiabdominalis (Sasaki)
"P", Blackman & Eastop 1984
Schizaphis graminum (Rondani)
P, Kennedy et al. 1962
Sipha elegans del Guercio
P, Crabtree & Gibbs 1989
Sitobion avenae (Fabricius)
P, Kennedy et al. 1962
Sitobion fragariae (Walker)
P, Kennedy et al. 1962
Sitobion miscanthi (Takahashi)
P, Kennedy et al. 1962

Bean big vein virus
Ungrouped
Acyrthosiphon pisum (Harris)
P, Cockbain 1983

Bean common mosaic virus
Potyvirus (1)

Acyrthosiphon pisum (Harris)
N, Kennedy et al. 1962
Aphis craccivora Koch
N, Kennedy et al. 1962
Aphis fabae Scopoli
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Aphis spiraecola Patch
N, Kennedy et al. 1962
Brevicoryne brassicae (Linnaeus)
N, Kennedy et al. 1962
Hayhurstia atriplicis (Linnaeus)
N, Kennedy et al. 1962
Lipaphis erysimi (Kaltenbach)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Megoura viciae Buckton
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962
Uroleucon ambrosiae (Thomas)
N, Kennedy et al. 1962

Bean leaf roll virus
Luteovirus
Acyrthosiphon gossypii Mordvilko
P, Ashby 1984
Acyrthosiphon pisum (Harris)
P, Ashby 1984
Aphis craccivora Koch
P, Ashby 1984
Aphis gossypii Glover
P, Ashby 1984
Aulacorthum solani (Kaltenbach)
P, Ashby 1984
Macrosiphum euphorbiae (Thomas)
P, Ashby 1984
Megoura viciae Buckton
P, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
P, Ashby 1984

Bean leaf roll virus [chickpea stunt virus strain]
Luteovirus
Aphis craccivora Koch
P, Crabtree & Gibbs 1989

Bean leaf wilt virus
Ungrouped
Myzus persicae (Sulzer)
U, Kennedy et al. 1962

Bean yellow mosaic virus
Potyvirus (1)

Acyrthosiphon gossypii Mordvilko
"N", Blackman & Eastop 1984
Acyrthosiphon kondoi Shinji
N, Kennedy et al. 1962
Acyrthosiphon lactucae (Passerini)
N, Kennedy et al. 1962
Acyrthosiphon pisum (Harris)
N, Kennedy et al. 1962
Aphis craccae Linnaeus
N, Kennedy et al. 1962
Aphis craccivora Koch
N, Kennedy et al. 1962
Aphis fabae Scopoli
N, Kennedy et al. 1962
Aphis glycines Matsumura
"N", Blackman & Eastop 1984
Aphis gossypii Glover
N, Kennedy et al. 1962
Aphis helianthi Monell
N, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Brachycaudus cardui (Linnaeus)
N, Kennedy et al. 1962
Cavariella aegopodii (Scopoli)
N, Kennedy et al. 1962
Chaetosiphon fragaefolii (Cockerell)
N, Kennedy et al. 1962
Chaetosiphon tetrarhodum (Walker)
N, Kennedy et al. 1962
Dysaphis crataegi (Kaltenbach)
N, Kennedy et al. 1962
Hayhurstia atriplicis (Linnaeus)
N, Kennedy et al. 1962
Hyperomyzus lactucae (Linnaeus)
N, Kennedy et al. 1962
Lipaphis erysimi (Kaltenbach)
N, Kennedy et al. 1962
Macrosiphum albifrons Essig
N, Schmidt & Karl 1989
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Macrosiphum rosae (Linnaeus)
N, Kennedy et al. 1962
Megoura viciae Buckton
N, Kennedy et al. 1962
Myzus cerasi (Fabricius)
N, Kennedy et al. 1962

Myzus certus (Walker)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962
Nearctaphis bakeri (Cowen)
N, Kennedy et al. 1962
Sitobion avenae (Fabricius)
N, Kennedy et al. 1962
Toxoptera citricidus (Kirkaldy)
N, Kennedy et al. 1962

Bean yellow mosaic virus [Canna mosaic virus strain]
Potyvirus (1)
Aphis gossypii Glover
N, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Bean yellow vein banding virus
Ungrouped
Acyrthosiphon pisum (Harris)
P (Helper virus required), Cockbain et al. 1986
Myzus persicae (Sulzer)
P (Helper virus required), Cockbain et al. 1986

Beet mosaic virus
Potyvirus (1)
Acyrthosiphon pisum (Harris)
N, Kennedy et al. 1962
Aphis apigraveolens Essig
N, Kennedy et al. 1962
Aphis armoraciae Cowen
N, Kennedy et al. 1962
Aphis craccivora Koch
N, Kennedy et al. 1962
Aphis fabae Scopoli
N, Kennedy et al. 1962
Aphis glycines Matsumura
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Aphis helianthi Monell
N, Kennedy et al. 1962
Aphis nasturtii Kaltenbach
N, Kennedy et al. 1962
Aphis spiraecola Patch
N, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962

Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Brevicoryne brassicae (Linnaeus)
N, Kennedy et al. 1962
Cavariella aegopodii (Scopoli)
N, Kennedy et al. 1962
Cryptomyzus ribis (Linnaeus)
"N", Blackman & Eastop 1984
Dysaphis apiifolia (Theobold)
N, Kennedy et al. 1962
Hayhurstia atriplicis (Linnaeus)
N, Kennedy et al. 1962
Hyadaphis foeniculi (Passerini)
N, Kennedy et al. 1962
Hyperomyzus lactucae (Linnaeus)
N, Kennedy et al. 1962
Lipaphis erysimi (Kaltenbach)
N, Kennedy et al. 1962
Macrosiphoniella oblonga (Mordvilko)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Microlophium primulae (Theobald)
N, Kennedy et al. 1962
Myzus ascalonicus Doncaster
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962
Rhopalosiphoninus staphyleae ssp. tulipaellus (Theobald)
N, Kennedy et al. 1962
Uroleucon cichorii (Koch)
N, Kennedy et al. 1962

Beet western yellows virus
Luteovirus
Aphis craccivora Koch
P, Crabtree & Gibbs 1989
Aphis gossypii Glover
P, Crabtree & Gibbs 1989
Aulacorthum solani (Kaltenbach)
P, Crabtree & Gibbs 1989
Brachycaudus helichrysi (Kaltenbach)
P, Kennedy et al. 1962
Brevicoryne brassicae (Linnaeus)
P, Crabtree & Gibbs 1989
Macrosiphum euphorbiae (Thomas)
P, Crabtree & Gibbs 1989
Metopolophium dirhodum (Walker)
P, Kennedy et al. 1962
Myzus ascalonicus Doncaster
P, Crabtree & Gibbs 1989
Myzus ornatus Laing
P, Kennedy et al. 1962

Myzus persicae (Sulzer)
P, Duffus 1972
Sitobion avenae (Fabricius)
P, Kennedy et al. 1962

Beet yellow net virus
"Luteovirus"
Aphis fabae Scopoli
P, Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
P, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
P, Kennedy et al. 1962
Myzus persicae (Sulzer)
P, Kennedy et al. 1962

Beet yellow stunt virus
Closterovirus
Hyperomyzus lactucae (Linnaeus)
S, Duffus 1979
Macrosiphum euphorbiae (Thomas)
S, Duffus 1979
Myzus persicae (Sulzer)
S, Duffus 1979

Beet yellows virus
Closterovirus
Acyrthosiphon pisum (Harris)
S, Kennedy et al. 1962
Aphis cuscutae Davis
S, Kennedy et al. 1962
Aphis fabae Scopoli
S, Kennedy et al. 1962
Aphis gossypii Glover
S, Kennedy et al. 1962
Aphis nasturtii Kaltenbach
S, Kennedy et al. 1962
Aphis sambuci Linnaeus
S, Kennedy et al. 1962
Brevicoryne brassicae (Linnaeus)
S, Kennedy et al. 1962
Hayhurstia atriplicis (Linnaeus)
S, Kennedy et al. 1962
Hyadaphis foeniculi (Passerini)
S, Kennedy et al. 1962
Lipaphis erysimi (Kaltenbach)
S, Kennedy et al. 1962
Macrosiphum stellariae Theobald
"S", Blackman & Eastop 1984
Microlophium primulae (Theobald)
S, Kennedy et al. 1962
Myzus ascalonicus Doncaster
S, Kennedy et al. 1962

Myzus certus (Walker)
S, Kennedy et al. 1962
Myzus cymbalariae Stroyan
S, Kennedy et al. 1962
Myzus ornatus Laing
S, Kennedy et al. 1962
Myzus persicae (Sulzer)
S, Kennedy et al. 1962
Rhopalosiphoninus latysiphon (Davidson)
U, Blackman & Eastop 1984
Rhopalosiphoninus staphyleae (Koch)
S, Kennedy et al. 1962

Beet 41 yellows virus
Ungrouped
Myzus persicae (Sulzer)
U, Kennedy et al. 1962

Bidens mottle virus
Potyvirus (1)
Acyrthosiphon pisum (Harris)
N, Christie et al. 1988
Aphis craccivora Koch
N, Christie et al. 1988
Aphis spiraecola Patch
N, Christie et al. 1988
Myzus persicae (Sulzer)
N, Christie et al. 1988

Black raspberry necrosis virus
Ungrouped
Amphorophora agathonica Hottes
S, Jones 1988
Amphorophora rubi ssp. idaei (Börner)
S, Jones 1988
Amphorophora rubicumberlandi Knowlton & Allen
S, Stace-Smith & Jones 1987
Amphorophora sensoriata Mason
S, Stace-Smith & Jones 1987
Aulacorthum solani (Kaltenbach)
S, Jones 1988
Illinoia rubicola (Oestlund)
S, Stace-Smith & Jones 1987
Macrosiphum euphorbiae (Thomas)
S, Jones 1988

Blackberry dwarf virus
Ungrouped
Chaetosiphon tetrarhodum (Walker)
"P", Kennedy et al. 1962

Blackeye cowpea mosaic virus
Potyvirus (1)

Aphis craccivora Koch
N, Purcifull & Gonsalves 1985
Myzus persicae (Sulzer)
N, Purcifull & Gonsalves 1985

Blueberry shoestring virus
"Sobemovirus"
Illinoia pepperi (MacGillivray)
S, Crabtree & Gibbs 1989

Broad bean (Indian) mosaic virus
Ungrouped
Aphis craccivora Koch
U, Negi & Nariani 1970
Aphis gossypii Glover
U, Negi & Nariani 1970
Myzus persicae (Sulzer)
U, Negi & Nariani 1970
Rhopalosiphum maidis (Fitch)
U, Negi & Nariani 1970

Broad bean fireblight virus
Ungrouped
Aphis fabae Scopoli
U, Cockbain 1983

Broad bean mild mosaic virus
Ungrouped
Acyrthosiphon pisum (Harris)
U, Yu 1939
Aphis fabae Scopoli
U, Yu 1939

Broad bean severe chlorosis virus
"Closterovirus"
Acyrthosiphon pisum (Harris)
N, Crabtree & Gibbs 1989

Broad bean virus V
Ungrouped
Aphis fabae Scopoli
U, Cockbain 1983

Broad bean wilt virus
Fabavirus
Acyrthosiphon pisum (Harris)
N, Taylor & Stubbs 1972
Aphis craccivora Koch
N, Taylor & Stubbs 1972
Aphis fabae Scopoli
N, Taylor & Stubbs 1972
Aphis nasturtii Kaltenbach
N, Crabtree & Gibbs 1989

Macrosiphum euphorbiae (Thomas)
N, Taylor & Stubbs 1972
Myzus persicae (Sulzer)
N, Taylor & Stubbs 1972

Brocoli necrotic yellows virus
Rhabdovirus (A)
Brevicoryne brassicae (Linnaeus)
U, Tomlinson et al. 1972

Canavalia maritima mosaic virus
Potyvirus (1)
Aphis craccivora Koch
U, Rodriguez et al. 1975
Aphis gossypii Glover
U, Rodriguez et al. 1975
Myzus persicae (Sulzer)
U, Rodriguez et al. 1975

Cannabis streak virus
Ungrouped
Phorodon cannabis Passerini
U, Kennedy et al. 1962

Cardamom mosaic virus
"Potyvirus (1)"
Pentalonia nigronervosa Coquerel
N, Dimitman 1981
Toxoptera sp.
N, Dimitman 1981

Carnation etched ring virus
Caulimovirus
Myzus persicae (Sulzer)
S, Hollings & Stone 1973

Carnation latent virus
Carlavirus
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Carnation necrotic fleck virus
Closterovirus
Myzus persicae (Sulzer)
S, Inouye 1974

Carnation vein mottle virus
Potyvirus (1)
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Carrot mottle virus
Ungrouped

Cavariella aegopodii (Scopoli)
P (Helper virus required), Murant 1974b
Semiaphis heraclei (Takahashi)
P, Kennedy et al. 1962

Carrot red leaf virus
Luteovirus
Cavariella aegopodii (Scopoli)
P, Waterhouse & Murant 1982

Carrot thin leaf virus
Potyvirus (1)
Cavariella aegopodii (Scopoli)
N, Howell & Mink 1980
Myzus persicae (Sulzer)
N, Howell & Mink 1980

Cattleya mosaic virus
Ungrouped
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Cauliflower mosaic virus
Caulimovirus
Acyrthosiphon pisum (Harris)
N, Kennedy et al. 1962
Aphis apigraveolens Essig
N, Kennedy et al. 1962
Aphis armoraciae Cowen
N, Kennedy et al. 1962
Aphis fabae Scopoli
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Brevicoryne brassicae (Linnaeus)
N, Kennedy et al. 1962
Cavariella aegopodii (Scopoli)
N, Kennedy et al. 1962
Cavariella pastinacae (Linnaeus)
N, Kennedy et al. 1962
Cryptomyzus ribis (Linnaeus)
N, Kennedy et al. 1962
Dysaphis apiifolia (Theobald)
N, Kennedy et al. 1962
Dysaphis radicola (Mordvilko)
N, Kennedy et al. 1962
Hyadaphis foeniculi (Passerini)
N, Kennedy et al. 1962

Hyperomyzus lactucae (Linnaeus)
N, Kennedy et al. 1962
Lipaphis erysimi (Kaltenbach)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Macrosiphum rosae (Linnaeus)
N, Kennedy et al. 1962
Megoura viciae Buckton
N, Kennedy et al. 1962
Myzus ascalonicus Doncaster
U, Blackman & Eastop 1984
Myzus ornatus Laing
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962
Nasonovia ribisnigri (Mosley)
N, Kennedy et al. 1962
Rhopalosiphoninus staphyleae ssp. tulipaellus (Theobald)
N, Kennedy et al. 1962
Rhopalosiphum nymphaeae (Linnaeus)
N, Kennedy et al. 1962
Uroleucon sonchi (Linnaeus)
N, Kennedy et al. 1962

Celery mosaic virus
Potyvirus (1)
Acyrthosiphon pisum (Harris)
N, Kennedy et al. 1962
Aphis apigraveolens Essig
N, Kennedy et al. 1962
Aphis armoraciae Cowen
N, Kennedy et al. 1962
Aphis fabae Scopoli
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Aphis helianthi Monell
"N", Blackman & Eastop 1984
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Brevicoryne brassicae (Linnaeus)
N, Kennedy et al. 1962
Cavariella aegopodii (Scopoli)
N, Kennedy et al. 1962
Cavariella pastinacae (Linnaeus)
N, Kennedy et al. 1962
Dysaphis apiifolia (Theobald)
N, Kennedy et al. 1962
Hyadaphis foeniculi (Passerini)
N, Kennedy et al. 1962

Hyalopterus pruni (Geoffroy)
N, Kennedy et al. 1962
Lipaphis erysimi (Kaltenbach)
N, Kennedy et al. 1962
Macrosiphum rosae (Linnaeus)
N, Kennedy et al. 1962
Myzus cerasi (Fabricius)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962
Semiaphis dauci (Fabricius)
"N", Blackman & Eastop 1984

Celery mosaic virus [Celery crinkle leaf mosaic virus strain]
Potyvirus (1)
Aphis apigraveolens Essig
N, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Dysaphis apiifolia (Theobald)
N, Kennedy et al. 1962
Hyadaphis foeniculi (Passerini)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Celery yellow spot virus
"Luteovirus"
Hyadaphis foeniculi (Passerini)
P, Kennedy et al. 1962

Centrosema mosaic virus
"Potexvirus"
Aphis craccivora Koch
N, van Velsen & Crowley 1962
Aphis gossypii Glover
N, van Velsen & Crowley 1962
Brachycaudus helichrysi (Kaltenbach)
N, van Velsen & Crowley 1962
Myzus persicae (Sulzer)
N, van Velsen & Crowley 1962

Chenopodium staudenvirus
Ungrouped
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Chickpea distortion mosaic virus
Potyvirus (1)
Aphis craccivora Koch
N, Crabtree & Gibbs 1989

Aphis gossypii Glover
N, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Chilli mosaic virus
"Potyvirus (1)"
Aphis fabae ssp. solanella Theobald
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Aphis nerii Boyer de Fonscolombe
"N", Blackman & Eastop 1984
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Chinese yam necrotic mosaic virus
"Carlavirus"
Aphis gossypii Glover
N, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Chrysanthemum good news mosaic virus
Ungrouped
Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Chrysanthemum virus B
Carlavirus
Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Coloradoa rufomaculata (Wilson)
N, Kennedy et al. 1962
Macrosiphoniella sanborni (Gillette)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Chrysanthemum virus B [Chrysanthemum vein mottle virus strain]
Carlavirus
Macrosiphoniella sanborni (Gillette)
N, Kennedy et al. 1962

Cineraria mosaic virus
Ungrouped
Brachycaudus helichrysi (Kaltenbach)
"N", Kennedy et al. 1962

Citrus enation-woody gall virus
Ungrouped
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989
Toxoptera citricidus (Kirkaldy)
N, Crabtree & Gibbs 1989

Citrus infectious variegation virus
Ilarvirus
Toxoptera aurantii (Boyer de Fonscolombe)
U, Blackman & Eastop 1984

Citrus tristeza virus
Closterovirus
Aphis gossypii Glover
N, Kennedy et al. 1962
Aphis spiraecola Patch
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962
Toxoptera aurantii (Boyer de Fonscolombe)
N, Kennedy et al. 1962
Toxoptera citricidus (Kirkaldy)
N, Kennedy et al. 1962

Clover (subterranean) mosaic virus
Ungrouped
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Clover blotch virus
"Cucumovirus"
Myzus persicae (Sulzer)
N, Musil et al. 1973

Clover mild mosaic virus
"Cucumovirus"
Acyrthosiphon pisum (Harris)
S, Gerhardson 1977
Myzus persicae (Sulzer)
S, Gerhardson 1977

Clover yellow vein virus
Potyvirus (1)
Acyrthosiphon pisum (Harris)
N (Helper component probably required), Hollings & Stone 1974
Aulacorthum solani (Kaltenbach)
N (Helper component probably required), Hollings & Stone 1974

Macrosiphum euphorbiae (Thomas)
N (Helper component probably required), Hollings & Stone 1974
Myzus persicae (Sulzer)
N (Helper component probably required), Hollings & Stone 1974

Clover yellows virus
Closterovirus
Aphis craccivora Koch
S, Crabtree & Gibbs 1989

Cocksfoot mild mosaic virus
[Cocksfoot mild mosaic virus group]
Myzus persicae (Sulzer)
U, Huth & Paul 1972

Cocksfoot streak virus
Potyvirus (1)
Hyalopteroides humilis (Walker)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Coffee blister spot virus
Ungrouped
Toxoptera aurantii (Boyer de Fonscolombe)
U, Kennedy et al. 1962

Commelina mosaic virus
Potyvirus (1)
Aphis gossypii Glover
N, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Corksfoot streak virus
Potyvirus (1)
Metopolophium dirhodum (Walker)
N, Catherall 1971
Sitobion avenae (Fabricius)
N, Catherall 1971

Cotton anthocyanosis virus
"Luteovirus"
Aphis gossypii Glover
P, Kennedy et al. 1962

Cotton curliness (Azerbaijan) virus
Ungrouped

Aphis craccivora Koch
U, Kennedy et al. 1962
Aphis gossypii Glover
U, Kennedy et al. 1962
Myzus persicae (Sulzer)
U, Kennedy et al. 1962

Cowpea aphid-borne mosaic virus
Potyvirus (1)
Acyrthosiphon pisum (Harris)
N, Crabtree & Gibbs 1989
Aphis craccivora Koch
N, Crabtree & Gibbs 1989
Aphis fabae Scopoli
N, Crabtree & Gibbs 1989
Aphis fabae ssp. solanella Theobald
N, Crabtree & Gibbs 1989
Aphis gossypii Glover
N, Crabtree & Gibbs 1989
Aphis medicaginis Koch
N, Crabree & Gibbs 1989
Macrosiphum euphorbiae (Thomas)
N, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
N, Crabree & Gibbs 1989

Cowpea aphid-borne mosaic virus [Crotalaria mosaic virus strain]
Potyvirus (1)
Aphis gossypii Glover
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Cowpea green vein banding virus
Potyvirus (1)
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Cowpea stunt virus
"Luteovirus"
Aphis craccivora Koch
P, Crabtree & Gibbs 1989

Crotalaria (Sann Hemp) mosaic virus
Ungrouped
Aphis craccivora Koch
U, Kennedy et al. 1962
Aphis gossypii Glover
U, Kennedy et al. 1962
Myzus persicae (Sulzer)
U, Kennedy et al. 1962

Crotalaria spectabilis yellow mosaic virus
Potyvirus (1)
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Cucumber mosaic virus
Cucumovirus
Acyrthosiphon caraganae (Cholodkovsky)
N, Kennedy et al. 1962
Acyrthosiphon lactucae (Passerini)
N, Kennedy et al. 1962
Acyrthosiphon pisum (Harris)
N, Kennedy et al. 1962
Amphorophora rubi ssp. idaei (Börner)
N, Kennedy et al. 1962
Amphorophora rubitoxica Knowlton
N, Kennedy et al. 1962
Anuraphis subterranea (Walker)
N, Kennedy et al. 1962
Aphis affinis del Guercio
N, Kennedy et al. 1962
Aphis confusa Walker
N, Kennedy et al. 1962
Aphis craccae Linnaeus
N, Kennedy et al. 1962
Aphis craccivora Koch
N, Kennedy et al. 1962
Aphis fabae Scopoli
N, Kennedy et al. 1962
Aphis fabae ssp. cirsiiacanthoidis Scopoli
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Aphis grossulariae Kaltenbach
N, Adams & Thresh 1987a
Aphis nasturtii Kaltenbach
N, Kennedy et al. 1962
Aphis plantaginis Goeze
N, Kennedy et al. 1962
Aphis praeterita Walker
N, Kennedy et al. 1962
Aphis ruborum (Börner)
N, Kennedy et al. 1962
Aphis schneideri (Börner)
N, Adams & Thresh 1987a
Aphis serpylli Koch
N, Kennedy et al. 1962
Aphis spiraecola Patch
"N", Blackman & Eastop 1984
Aphis urticata Gmelin
N, Kennedy et al. 1962

Aphis verbasci Schrank
N, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Brachycaudus cardui (Linnaeus)
N, Kennedy et al. 1962
Brachycaudus helichrysi (Kaltenbach)
N, Kennedy et al. 1962
Brachycaudus lychnidis (Linnaeus)
N, Kennedy et al. 1962
Brevicoryne brassicae (Linnaeus)
N, Kennedy et al. 1962
Chaitophorus populeti (Panzer)
N, Kennedy et al. 1962
Coloradoa tanacetina (Walker)
N, Kennedy et al. 1962
Cryptomyzus galeopsidis (Kaltenbach)
N, Kennedy et al. 1962
Cryptomyzus korschelti Börner
N, Kennedy et al. 1962
Cryptomyzus ribis (Linnaeus)
N, Kennedy et al. 1962
Delphiniobium junackianum (Karsch)
N, Kennedy et al. 1962
Hyadaphis foeniculi (Passerini)
N, Kennedy et al. 1962
Hyalopterus pruni (Geoffroy)
N, Kennedy et al. 1962
Hyperomyzus lactucae (Linnaeus)
N, Kennedy et al. 1962
Hysteroneura setariae (Thomas)
N, Coudriet 1962
Illinoia azaleae (Mason)
N, Kennedy et al. 1962
Lipaphis erysimi (Kaltenbach)
N, Kennedy et al. 1962
Macrosiphoniella millefolii (de Geer)
N, Kennedy et al. 1962
Macrosiphum daphnidis Börner
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Macrosiphum rosae (Linnaeus)
N, Kennedy et al. 1962
Megoura viciae Buckton
N, Kennedy et al. 1962
Metopeurum fuscoviride Stroyan
N, Kennedy et al. 1962
Myzus ascalonicus Doncaster
"N", Blackman & Eastop 1984

Myzus ligustri (Mosley)
N, Kennedy et al. 1962
Myzus ornatus Laing
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962
Nasonovia ribisnigri (Mosley)
N, Kennedy et al. 1962
Phorodon humuli (Schrank)
N, Kennedy et al. 1962
Rhopalosiphoninus latysiphon (Davidson)
N, Kennedy et al. 1962
Rhopalosiphoninus staphyleae ssp. tulipaellus (Theobald)
N, Kennedy et al. 1962
Rhopalosiphum maidis (Fitch)
N, Kennedy et al. 1962
Rhopalosiphum nymphaeae (Linnaeus)
N, Kennedy et al. 1962
Rhopalosiphum padi (Linnaeus)
N, Kennedy et al. 1962
Sipha maydis Passerini
N, Kennedy et al. 1962
Uroleucon cichorii (Koch)
N, Kennedy et al. 1962
Uroleucon erigeronensis (Thomas)
N, Kennedy et al. 1962
Uroleucon jaceae (Linnaeus)
N, Kennedy et al. 1962
Uroleucon jaceae ssp. henrichi (Börner)
N, Kennedy et al. 1962
Uroleucon obscurum (Koch)
N, Kennedy et al. 1962
Uroleucon tanaceti (Linnaeus)
N, Kennedy et al. 1962

Cucumber mosaic virus [Banana mosaic virus strain]
Cucumovirus
Aphis gossypii Glover
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Pentalonia nigronervosa Coquerel
N, Kennedy et al. 1962

Cucumber mosaic virus [Lily ringspot virus strain]
Cucumovirus
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Dahlia mosaic virus
Caulimovirus
Aphis cytisorum Hartig
N, Kennedy et al. 1962

Aphis fabae Scopoli
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Brachycaudus helichrysi (Kaltenbach)
N, Kennedy et al. 1962
Cryptomyzus ribis (Linnaeus)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Myzus ascalonicus Doncaster
N, Kennedy et al. 1962
Myzus ligustri (Mosley)
N, Kennedy et al. 1962
Myzus ornatus Laing
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962
Uroleucon tanaceti (Linnaeus)
N, Kennedy et al. 1962

Dandelion yellow mosaic virus
"Parsnip yellow fleck virus group"
Aulacorthum solani (Kaltenbach)
S, Kennedy et al. 1962
Myzus ascalonicus Doncaster
S, Kennedy et al. 1962
Myzus ornatus Laing
S, Kennedy et al. 1962

Dasheen mosaic virus
Potyvirus (1)
Aphis craccivora Koch
N, Crabtree & Gibbs 1989
Aphis gossypii Glover
N, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Datura (Colombian) virus
Potyvirus (1)
Myzus persicae (Sulzer)
N, Crabtree & Gibb 1989

Datura distortion mosaic virus
Potyvirus (1)
Aphis gossypii Glover
N, Kennedy et al. 1962

Myzus persicae (Sulzer)
N, Kennedy et al. 1962
Uroleucon sonchi (Linnaeus)
N, Crabtree & Gibbs 1989

Datura virus
Ungrouped
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Delphinium net mosaic virus
Ungrouped
Delphiniobium junackianum (Karsch)
U, Kennedy et al. 1962

Desmodium mosaic virus
Potyvirus (1)
Aphis craccivora Koch
N, Edwardson et al. 1970
Myzus persicae (Sulzer)
N, Edwardson et al. 1970

Dioscorea alata ring mottle virus
Potyvirus (1)
Aphis craccivora Koch
N, Crabtree & Gibbs 1989
Aphis fabae Scopoli
N, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Dioscorea green-banding mosaic virus
Potyvirus (1)
Aphis fabae Scopoli
N, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Dioscorea trifida virus
Potyvirus (1)
Aphis gossypii Glover
N, Marchoux et al. 1979

Dock (New Zealand) mosaic virus
"Carlavirus"
Aphis rumicis Linnaeus
"N", Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
"N", Kennedy et al. 1962
Myzus persicae (Sulzer)
"N", Kennedy et al. 1962

Dock mosaic virus
"Carlavirus"

Macrosiphum euphorbiae (Thomas)
U, Chamberlain & Matthews 1948
Myzus persicae (Sulzer)
U, Chamberlain & Matthews 1948

Dolichos ringspot mottle virus
Ungrouped
Myzus persicae (Sulzer)
U, Cockbain 1983

Elder mosaic virus
Ungrouped
Aphis sambuci Linnaeus
U, Kennedy et al. 1962

Elderberry carlavirus
Carlavirus
Myzus persicae (Sulzer)
N, Dijkstra & van Lent 1983

Filaree red leaf virus
"Luteovirus"
Acyrthosiphon malvae (Mosley)
P, Kennedy et al. 1962
Aphis fabae Scopoli
P, Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
P, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
P, Kennedy et al. 1962
Rhopalosiphum padi (Linnaeus)
P, Kennedy et al. 1962

Freesia mosaic virus
Potyvirus (1)
Macrosiphum euphorbiae (Thomas)
N, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Gambir mosaic virus
Ungrouped
Aphis gambir (Börner ex Schneider) [nomen nudum]
U, Kennedy et al. 1962

Garlic yellow streak virus
Potyvirus (1)
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Gooseberry vein banding virus
Ungrouped

Aphis grossulariae Kaltenbach
S, Adams & Posnette 1987
Aphis schneideri (Börner)
S, Adams & Posnette 1987
Cryptomyzus ribis (Linnaeus)
S, Adams & Posnette 1987
Hyperomyzus lactucae (Linnaeus)
S, Adams & Posnette 1987
Hyperomyzus pallidus Hille Ris Lambers
S, Adams & Posnette 1987
Myzus persicae (Sulzer)
S, Adams & Thresh 1987b
Nasonovia ribisnigri (Mosley)
S, Adams & Posnette 1987

Groundnut eyespot virus
Potyvirus (1)
Aphis craccivora Koch
N, Crabtree & Gibbs 1989

Groundnut mottle virus
Ungrouped
Aphis craccivora Koch
P, Kennedy et al. 1962

Groundnut rosette assistor virus
Luteovirus
Aphis craccivora Koch
P (Virus aids transmission of groundnut rosette virus), Crabtree & Gibbs 1989
Aphis gossypii Glover
P (Virus aids transmission of groundnut rosette virus), Crabtree & Gibbs 1989

Groundnut rosette virus
Ungrouped
Aphis craccivora Koch
P, Kennedy et al. 1962

Guar symptomless virus
Potyvirus (1)
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Guinea grass mosaic virus
Potyvirus (1)
Hysteroneura setariae (Thomas)
N, Crabtree & Gibss 1989
Rhopalosiphum maidis (Fitch)
N, Crabtree & Gibbs 1989

Helenium virus S
Carlavirus

Myzus persicae (Sulzer)
N, Koenig & Lesemann 1983

Henbane mosaic virus
Potyvirus (1)
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Myzus ascalonicus Doncaster
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Heracleum latent virus
Capillovirus
Cavariella aegopodii (Scopoli)
S (Helper virus required), Bem & Murant 1980
Cavariella pastinacae (Linnaeus)
S (Helper virus required), Bem & Murant 1980
Cavariella theobaldi (Gillette & Bragg)
S (Helper virus required), Bem & Murant 1980

Hippeastrum mosaic virus
Potyvirus (1)
Aphis fabae Scopoli
N, Crabtree & Gibbs 1989
Aphis gossypii Glover
N, Brunt 1973b
Myzus persicae (Sulzer)
N, Brunt 1973b

Holodiscus witches' broom virus
Ungrouped
Brachycaudus spiraeae Börner
"N", Kennedy et al. 1962

Honeysuckle latent virus
Carlavirus
Hyadaphis foeniculi (Passerini)
N, Brunt & van der Meer 1984

Hop latent virus
Carlavirus
Phorodon humuli (Schrank)
N, Adams & Barbara 1982

Hop mosaic virus
Carlavirus
Macrosiphum euphorbiae (Thomas)
N, Barbara & Adams 1981
Myzus persicae (Sulzer)
N, Barbara & Adams 1981

Phorodon humuli (Schrank)
N, Barbara & Adams 1981

Hop split leaf blotch virus
Ungrouped
Macrosiphum euphorbiae (Thomas)
"N", Kennedy et al. 1962
Phorodon humuli (Schrank)
"N", Kennedy et al. 1962

Hopline pattern virus
Ungrouped
Phorodon humuli (Schrank)
U, Blackman & Eastop 1984

Hyacinth mosaic virus
Potyvirus (1)
Macrosiphum euphorbiae (Thomas)
N, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Indonesian soybean dwarf virus
Luteovirus
Aphis glycines Matsumura
P, Crabtree & Gibbs 1989

Iris (beardless) mosaic virus
Ungrouped
Aphis fabae Scopoli
"N", Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
"N", Kennedy et al. 1962
Myzus persicae (Sulzer)
"N", Kennedy et al. 1962

Iris (bulbous) mosaic virus
Ungrouped
Macrosiphum euphorbiae (Thomas)
"N", Kennedy et al. 1962
Myzus persicae (Sulzer)
"N", Kennedy et al. 1962

Iris fulva mosaic virus
Potyvirus (1)
Aphis fabae Scopoli
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Iris mild mosaic virus
Potyvirus (1)

Aphis gossypii Glover
N, Brunt 1973a
Macrosiphum euphorbiae (Thomas)
N, Brunt 1986
Myzus persicae (Sulzer)
N, Brunt 1973a

Iris severe mosaic virus
Potyvirus (1)
Macrosiphum euphorbiae (Thomas)
N, Brunt et al. 1988
Myzus persicae (Sulzer)
N, Brunt et al. 1988

Laburnum mosaic virus
Ungrouped
Aphis cytisorum Hartig
U, Kennedy et al. 1962

Lamium mild mosaic virus
Fabavirus
Cryptomyzus alboapicalis (Theobald)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Leek yellow stripe virus
Potyvirus (1)
Aphis fabae Scopoli
N, Bos 1981
Myzus persicae (Sulzer)
N, Bos 1981

Legume yellows virus
Luteovirus
Acyrthosiphon pisum (Harris)
P, Crabtree & Gibbs 1989
Aulacorthum solani (Kaltenbach)
P, Crabtree & Gibbs 1989

Lettuce mosaic virus
Potyvirus (1)
Acyrthosiphon lactucae (Passerini)
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Hyperomyzus lactucae (Linnaeus)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Lettuce necrotic yellows virus
Rhabdovirus (A)
Hyperomyzus carduellinus (Theobald)
P, Francki & Randles 1970
Hyperomyzus lactucae (Linnaeus)
P, Stubbs & Grogan 1963

Lettuce speckles mottle virus
Ungrouped
Myzus persicae (Sulzer)
P (Helper virus required), Falk et al. 1979

Lily rosette virus
Ungrouped
Aphis gossypii Glover
P, Kennedy et al. 1962
Macrosiphum lilii (Monell)
P, Kennedy et al. 1962

Lily symptomless virus
Carlavirus
Aphis gossypii Glover
P, Kennedy et al. 1962
Dysaphis tulipae (Boyer de Fonscolombe)
P, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Allen 1972

Lily symptomless virus [Alstroemeria virus strain]
Carlavirus
Myzus persicae (Sulzer)
N, Brunt & Phillips 1981

Lotus streak virus
Rhabdovirus (B)
Rhopalosiphum nymphaeae (Linnaeus)
P, Crabtree & Gibbs 1989

Lucerne enation virus
Rhabdovirus (B)
Aphis craccivora Koch
P, Crabtree & Gibbs 1989

Lycium virus
Ungrouped
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Maclura mosaic virus
"Potyvirus (1)"
Myzus persicae (Sulzer)
N, Koenig et al. 1981

Maize dwarf virus
Ungrouped
Tetraneura ulmi (Linnaeus)
U, Kennedy et al. 1962

Maize leaf fleck virus
Ungrouped
Myzus persicae (Sulzer)
P, Kennedy et al. 1962
Rhopalosiphum maidis (Fitch)
P, Kennedy et al. 1962
Rhopalosiphum padi (Linnaeus)
P, Kennedy et al. 1962

Malva vein clearing virus
"Potyvirus (1)"
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Malva yellows virus
Luteovirus
Aphis gossypii Glover
P, Kennedy et al. 1962
Myzus ornatus Laing
P, Kennedy et al. 1962
Myzus persicae (Sulzer)
P, Kennedy et al. 1962

Milk vetch dwarf virus
Luteovirus
Acyrthosiphon pisum (Harris)
P, Crabtree & Gibbs 1989
Aphis craccivora Koch
P, Crabtree & Gibbs 1989
Aphis gossypii Glover
P, Crabtree & Gibbs 1989
Aulacorthum solani (Kaltenbach)
P, Crabtree & Gibbs 1989

Millet red leaf virus
"Luteovirus"
Acyrthosiphon pisum (Harris)
P, Kennedy et al. 1962
Aphis craccivora Koch
P, Kennedy et al. 1962
Aphis glycines Matsumura
P, Kennedy et al. 1962
Aphis gossypii Glover
P, Kennedy et al. 1962
Cavariella salicicola (Matsumura)
P, Kennedy et al. 1962

Hyalopterus pruni (Geoffroy)
P, Kennedy et al. 1962
Melanaphis sacchari (Zehntner)
P, Kennedy et al. 1962
Rhopalosiphum maidis (Fitch)
P, Kennedy et al. 1962
Schizaphis graminum (Rondani)
P, Kennedy et al. 1962
Sitobion miscanthi (Takahashi)
P, Kennedy et al. 1962
Tuberocephalus momonis (Matsumura)
P, Kennedy et al. 1962

Mirabilis mosaic virus
Caulimovirus
Myzus persicae (Sulzer)
S, Brunt & Kitajima 1973

Mulberry mosaic virus
Ungrouped
Aphis gossypii Glover
U, Raychaudhuri et al. 1965
Myzus persicae (Sulzer)
U, Raychaudhuri et al. 1965
Rhopalosiphum maidis (Fitch)
U, Raychaudhuri et al. 1965

Mungbean mosaic virus
"Potyvirus (1)"
Aphis glycines Matsumura
U, Blackman & Eastop 1984

Muskmelon vein necrosis virus
Carlavirus
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Narcissus latent virus
Carlavirus
Acyrthosiphon pisum (Harris)
N, Brunt 1976
Aphis gossypii Glover
N, Brunt 1976
Myzus persicae (Sulzer)
N, Brunt 1976

Narcissus yellow stripe virus
Potyvirus (1)
Acyrthosiphon pisum (Harris)
N, Kennedy et al. 1962
Aphis fabae Scopoli
N, Kennedy et al. 1962

Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Dysaphis plantaginea (Passerini)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Macrosiphum rosae (Linnaeus)
N, Kennedy et al. 1962
Myzus cerasi (Fabricius)
N, Kennedy et al. 1962

Nasturtium mosaic virus
Ungrouped
Aphis fabae Scopoli
N, Kennedy et al. 1962
Aphis genistae Scopoli
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Brevicoryne brassicae (Linnaeus)
N, Kennedy et al. 1962
Capitophorus hippophaes (Walker)
N, Kennedy et al. 1962
Dysaphis apiifolia (Theobald)
N, Kennedy et al. 1962
Hyadaphis foeniculi (Passerini)
N, Kennedy et al. 1962
Hyperomyzus lactucae (Linnaeus)
N, Kennedy et al. 1962
Lipaphis erysimi (Kaltenbach)
N, Kennedy et al. 1962
Megoura viciae Buckton
N, Kennedy et al. 1962
Myzus certus (Walker)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962
Phorodon humuli (Schrank)
N, Kennedy et al. 1962
Rhopalosiphum padi (Linnaeus)
N, Kennedy et al. 1962

Nasturtium ringspot virus
Ungrouped
Acyrthosiphon pisum (Harris)
N, Kennedy et al. 1962
Aphis fabae Scopoli
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962

Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Nerine latent virus
Carlavirus
Myzus persicae (Sulzer)
N, Maat et al. 1978

Nerine virus
"Potyvirus (1)"
Unknown sp.
N, Crabtree & Gibbs 1989

Onion mosaic virus
Ungrouped
Aulacorthum circumflexum (Buckton)
U, Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
U, Kennedy et al. 1962
Myzus persicae (Sulzer)
U, Kennedy et al. 1962

Onion yellow dwarf virus
Potyvirus (1)
Acyrthosiphon pisum (Harris)
N, Kennedy et al. 1962
Amphorophora rossi Hottes & Frison
N, Kennedy et al. 1962
Aphis coreopsidis (Thomas)
N, Kennedy et al. 1962
Aphis craccivora Koch
N, Kennedy et al. 1962
Aphis decepta Hottes & Frison
N, Kennedy et al. 1962
Aphis fabae Scopoli
N, Kennedy et al. 1962
Aphis forbesi Weed
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Aphis helianthi Monell
N, Kennedy et al. 1962
Aphis oenotherae Oestlund
N, Kennedy et al. 1962
Aphis oestlundi Gillette
N, Kennedy et al. 1962
Aphis pomi de Geer
N, Kennedy et al. 1962
Aphis sambuci Linnaeus
N, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962

Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Brachycaudus cardui (Linnaeus)
N, Kennedy et al. 1962
Calaphis betulella Walsh
N, Kennedy et al. 1962
Capitophorus elaeagni (del Guercio)
N, Kennedy et al. 1962
Ceruraphis viburnicola (Gillette)
N, Kennedy et al. 1962
Chaitophorus populicola Thomas
N, Kennedy et al. 1962
Chaitophorus viminalis Monell
N, Kennedy et al. 1962
Cryptomyzus ribis (Linnaeus)
N, Kennedy et al. 1962
Drepanaphis acerifoliae (Thomas)
N, Kennedy et al. 1962
Glabromyzus rhois (Monell)
N, Kennedy et al. 1962
Hayhurstia atriplicis (Linnaeus)
N, Kennedy et al. 1962
Hoplochaitophorus quercicola (Monell)
N, Kennedy et al. 1962
Hyalomyzus monardae (Davis)
N, Kennedy et al. 1962
Hyalopterus pruni (Geoffroy)
N, Kennedy et al. 1962
Hysteroneura setariae (Thomas)
N, Kennedy et al. 1962
Kakimia purpurascens (Oestlund)
N, Kennedy et al. 1962
Lipaphis erysimi (Kaltenbach)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Macrosiphum rosae (Linnaeus)
N, Kennedy et al. 1962
Microsiphoniella artemisiae (Gillette)
N, Kennedy et al. 1962
Monellia caryae (Monell)
N, Kennedy et al. 1962
Monellia caryella (Fitch)
N, Kennedy et al. 1962
Myzocallis punctatus (Monell)
N, Kennedy et al. 1962
Myzus ascalonicus Doncaster
N, Kennedy et al. 1962
Myzus cerasi (Fabricius)
N, Kennedy et al. 1962
Myzus ornatus Laing
N, Kennedy et al. 1962

Myzus persicae (Sulzer)
N, Kennedy et al. 1962
Periphyllus negundinis (Thomas)
N, Kennedy et al. 1962
Prociphilus corrugatans (Sirrine)
N, Kennedy et al. 1962
Pterocomma salicis (Linnaeus)
N, Kennedy et al. 1962
Rhodobium porosum (Sanderson)
N, Kennedy et al. 1962
Rhopalosiphum maidis (Fitch)
N, Kennedy et al. 1962
Rhopalosiphum nymphaeae (Linnaeus)
N, Kennedy et al. 1962
Rhopalosiphum padi (Linnaeus)
N, Kennedy et al. 1962
Therioaphis trifolii (Monell)
N, Kennedy et al. 1962
Thripsaphis ballii (Gillette)
N, Kennedy et al. 1962
Uroleucon ambrosiae (Thomas)
N, Kennedy et al. 1962
Uroleucon gravicorne (Patch)
N, Kennedy et al. 1962
Uroleucon impatiensicolens (Patch)
N, Kennedy et al. 1962
Uroleucon rudbeckiae (Fitch)
N, Kennedy et al. 1962
Uroleucon taraxaci (Kaltenbach)
N, Kennedy et al. 1962

Ornithogalum mosaic virus
"Potyvirus (1)"
Aphis gossypii Glover
N, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Macrosiphum lilii (Monell)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Papaya ringspot (type P & W) virus
Potyvirus (1)
Acyrthosiphon lactucae (Passerini)
N (Helper component required), Coudriet 1962
Acyrthosiphon pisum (Harris)
N (Helper component required), Karl & Schmelzer 1971
Aphis craccivora Koch
N (Helper component required), Karl & Schmelzer 1971

Aphis fabae Scopoli
N (Helper component required), Karl & Schmelzer 1971
Aphis gossypii Glover
N (Helper component required), Karl & Schmelzer 1971
Aphis nasturtii Kaltenbach
N (Helper component required), Karl & Schmelzer 1971
Aphis nerii Boyer de Fonscolombe
N (Helper component required), Blackman & Eastop 1984
Aphis sambuci Linnaeus
N (Helper component required), Karl & Schmelzer 1971
Aphis spiraecola Patch
N (Helper component required), Adlerz 1974
Aphis umbrella (Börner)
N (Helper component required), Capoor & Varma 1948
Aulacorthum circumflexum (Buckton)
N (Helper component required), Karl & Schmelzer 1971
Aulacorthum solani (Kaltenbach)
N (Helper component required), Karl & Schmelzer 1971
Brachycaudus cardui (Linnaeus)
N (Helper component required), Karl & Schmelzer 1971
Brachycaudus helichrysi (Kaltenbach)
N (Helper component required), Karl & Schmelzer 1971
Cavariella aegopodii (Scopoli)
N (Helper component required), Karl & Schmelzer 1971
Cryptomyzus ribis (Linnaeus)
N (Helper component required), Karl & Schmelzer 1971
Dysaphis crataegi (Kaltenbach)
N (Helper component required), Karl & Schmelzer 1971
Hyalopterus pruni (Geoffroy)
N (Helper component required), Karl & Schmelzer 1971
Hysteroneura setariae (Thomas)
N (Helper component required), Coudriet 1962
Macrosiphum euphorbiae (Thomas)
N (Helper component required), Karl & Schmelzer 1971
Myzus cerasi (Fabricius)
N (Helper component required), Karl & Schmelzer 1971
Myzus persicae (Sulzer)
N (Helper component required), Karl & Schmelzer 1971
Neotoxoptera formosana (Takahashi)
N (Helper component required), Jensen 1949
Phorodon humuli (Schrank)
N (Helper component required), Karl & Schmelzer 1971
Rhopalosiphum maidis (Fitch)
N (Helper component required), Karl & Schmelzer 1971

Parsnip mosaic virus
Potyvirus (1)
Cavariella aegopodii (Scopoli)
N, Murant 1972
Cavariella theobaldi (Gillette & Bragg)
N, Murant 1972
Myzus persicae (Sulzer)
N, Murant 1972

Parsnip yellow fleck virus
Parsnip yellow fleck virus group
Cavariella aegopodii (Scopoli)
S, Murant 1974a
Cavariella pastinacae (Linnaeus)
S, Murant 1974a
Cavariella theobaldi (Gillette & Bragg)
"S", Blackman & Eastop 1984

Parsnip yellow fleck virus [Anthriscus yellows virus strain]
Parsnip yellow fleck virus group
Cavariella aegopodii (Scopoli)
S, Blackman & Eastop 1984

Passiflora ringspot virus
Potyvirus (1)
Aphis gossypii Glover
N, Crabtree & Gibbs 1989
Aphis spiraecola Patch
N, Crabtree & Gibbs 1989

Passionfruit woodiness virus
Potyvirus (1)
Aphis craccivora Koch
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Pea enation mosaic virus
Pea enation mosaic virus group
Acyrthosiphon pisum (Harris)
P, Kennedy et al. 1962
Aphis gossypii Glover
P, Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
"P", Blackman & Eastop 1984
Macrosiphum euphorbiae (Thomas)
P, Kennedy et al. 1962
Megoura viciae Buckton
"P", Blackman & Eastop 1984
Myzus ornatus Laing
P, Kennedy et al. 1962
Myzus persicae (Sulzer)
P, Kennedy et al. 1962

Pea pimple pod virus
Phytoreovirus group
Macrosiphum euphorbiae (Thomas)
P, Crabtree & Gibbs 1989

Myzus persicae (Sulzer)
P, Crabtree & Gibbs 1989

Pea seed-borne mosaic virus
Potyvirus (1)
Acyrthosiphon pisum (Harris)
N, Hampton & Mink 1975
Aphis craccivora Koch
N, Hampton & Mink 1975
Aphis fabae Scopoli
N, Hampton & Mink 1975
Macrosiphum euphorbiae (Thomas)
N, Hampton & Mink 1975
Macrosiphum rosae (Linnaeus)
N, Hampton & Mink 1975
Myzus persicae (Sulzer)
N, Hampton & Mink 1975
Ovatus crataegarius (Walker)
N, Hampton & Mink 1975
Rhopalosiphum padi (Linnaeus)
N, Hampton & Mink 1975
Uroleucon escalantii (Knowlton)
N, Hampton & Mink 1975

Pea streak virus
Carlavirus
Acyrthosiphon pisum (Harris)
N, Kennedy et al. 1962

Pea streak virus [Alfalfa latent virus strain]
Carlavirus
Acyrthosiphon pisum (Harris)
N, Veerisetty 1979

Peanut chlorotic streak virus
Caulimovirus
Unknown sp.
U, Crabtree & Gibbs 1989

Peanut green mosaic virus
Potyvirus (1)
Aphis gossypii Glover
N, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Peanut mild mottle virus
Potyvirus (1)
Aphis craccivora Koch
N, Zeyong et al. 1983
Myzus persicae (Sulzer)
N, Zeyong et al. 1983

Peanut mottle virus
Potyvirus (1)
Aphis craccivora Koch
N, Bock & Kuhn 1975
Aphis gossypii Glover
N, Bock & Kuhn 1975
Hyperomyzus lactucae (Linnaeus)
N, Bock & Kuhn 1975
Myzus persicae (Sulzer)
N, Bock & Kuhn 1975
Rhopalosiphum padi (Linnaeus)
N, Bock & Kuhn 1975

Peanut stripe virus
Potyvirus (1)
Aphis craccivora Koch
N, Crabtree & Gibbs 1989

Peanut stunt virus
Cucumovirus
Aphis craccivora Koch
N, Mink 1972
Aphis spiraecola Patch
N, Mink 1972
Myzus persicae (Sulzer)
N, Mink 1972

Peanut stunt virus [Robinia mosaic virus strain]
Cucumovirus
Aphis craccivora Koch
N, Schmelzer 1971
Myzus persicae (Sulzer)
N, Schmelzer 1971

Pepper mottle virus
Potyvirus (1)
Aphis craccivora Koch
N, Crabtree & Gibbs 1989
Aphis gossypii Glover
N, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
N, Nelson & Wheeler 1972

Pepper veinal mottle virus
Potyvirus (1)
Aphis gossypii Glover
N, Brunt & Kenten 1972
Aphis spiraecola Patch
N, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
N, Brunt & Kenten 1972

Toxoptera citricidus (Kirkaldy)
N, Blackman & Eastop 1984

Peru tomato virus
Potyvirus (1)
Myzus persicae (Sulzer)
N, Fribourg & Fernandez-Northcote 1982

Physalis floridana yellow net virus
Ungrouped
Myzus persicae (Sulzer)
P, Kennedy et al. 1962

Plum pox virus
Potyvirus (1)
Aphis spiraecola Patch
"N", Blackman & Eastop 1984
Brachycaudus cardui (Linnaeus)
N, Kegler & Schade 1971
Brachycaudus helichrysi (Kaltenbach)
N, Kegler & Schade 1971
Hyalopterus pruni (Geoffroy)
"N", Blackman & Eastop 1984
Myzus persicae (Sulzer)
N, Kegler & Schade 1971
Phorodon humuli (Schrank)
N, Kegler & Schade 1971

Poison hemlock ringspot virus
Ungrouped
Aphis apigraveolens Essig
N, Kennedy et al. 1962
Aphis armoraciae Cowen
N, Kennedy et al. 1962
Aphis fabae Scopoli
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Aphis helianthi Monell
N, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Cavariella aegopodii (Scopoli)
N, Kennedy et al. 1962
Dysaphis apiifolia (Theobald)
N, Kennedy et al. 1962
Hyadaphis foeniculi (Passerini)
N, Kennedy et al. 1962
Lipaphis erysimi (Kaltenbach)
N, Kennedy et al. 1962

Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Pokeweed mosaic virus
Potyvirus (1)
Myzus persicae (Sulzer)
N, Shepherd 1972

Potato aucuba mosaic virus
"Potexvirus"
Aphis gossypii Glover
N (Helper virus required), Kennedy et al. 1962
Aphis nasturtii Kaltenbach
N (Helper virus required), Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N (Helper virus required), Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
N (Helper virus required), Kennedy et al. 1962
Hyperomyzus lactucae (Linnaeus)
N (Helper virus required), Kennedy et al. 1962
Myzus persicae (Sulzer)
N (Helper virus required), Kennedy et al. 1962

Potato leaf rolling mosaic virus
Ungrouped
Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Potato leafroll virus
Luteovirus
Aphis fabae Scopoli
P, Kennedy et al. 1962
Aphis nasturtii Kaltenbach
P, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
P, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
P, Harrison 1984
Myzus ascalonicus Doncaster
P, Kennedy et al. 1962
Myzus ornatus Laing
P, Kennedy et al. 1962
Myzus persicae (Sulzer)
P, Kennedy et al. 1962
Phorodon humuli (Schrank)
P, Kennedy et al. 1962
Rhopalosiphoninus latysiphon (Davidson)
P, Kennedy et al. 1962

Rhopalosiphoninus staphyleae ssp. tulipaellus (Theobald)
P, Kennedy et al. 1962

Potato leafroll virus [Tomato yellow top virus strain]
Luteovirus
Macrosiphum euphorbiae (Thomas)
P, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
P, Crabtree & Gibbs 1989

Potato spindle tuber "virus"
Potato spindle tuber viroid
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Potato veinal necrosis virus
Ungrouped
Macrosiphum euphorbiae (Thomas)
U, Kennedy et al. 1962
Myzus persicae (Sulzer)
U, Kennedy et al. 1962

Potato virus A
Potyvirus (1)
Aphis frangulae Kaltenbach
N, Bartels 1971
Aphis nasturtii Kaltenbach
N, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Potato virus M
Carlavirus
Aphis frangulae Kaltenbach
N, Bode & Weideman 1970
Aphis nasturtii Kaltenbach
N, Bode & Weideman 1970
Macrosiphum euphorbiae (Thomas)
N, Bode & Weideman 1970
Myzus persicae (Sulzer)
N, Wetter & Volk 1960

Potato virus S
Carlavirus

Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Potato virus V
Potyvirus (1)
Brachycaudus helichrysi (Kaltenbach)
N, Jones & Fribourg 1986
Macrosiphum euphorbiae (Thomas)
N, Jones & Fribourg 1986
Myzus persicae (Sulzer)
N, Jones & Fribourg 1986
Rhopalosiphoninus latysiphon (Davidson)
N, Jones & Fribourg 1986

Potato virus Y
Potyvirus (1)
Acyrthosiphon pisum (Harris)
N (Helper component required), Kennedy et al. 1962
Aphis fabae Scopoli
N (Helper component required), Kennedy et al. 1962
Aphis frangulae Kaltenbach
N (Helper component required), Kennedy et al. 1962
Aphis gossypii Glover
N (Helper component required), Kennedy et al. 1962
Aphis nasturtii Kaltenbach
N (Helper component required), Kennedy et al. 1962
Aphis spiraecola Patch
"N", Blackman & Eastop 1984
Aulacorthum circumflexum (Buckton)
N (Helper component required), Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
N (Helper component required), Kennedy et al. 1962
Brachycaudus helichrysi (Kaltenbach)
N, Blackman & Eastop 1984
Cavariella pastinacae (Linnaeus)
N (Helper component required), Kennedy et al. 1962
Lipaphis erysimi (Kaltenbach)
N (Helper component required), Kennedy et al. 1962
Macrosiphoniella sanborni (Gillette)
N (Helper component required), Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N (Helper component required), Kennedy et al. 1962
Microlophium primulae (Theobald)
N (Helper component required), Kennedy et al. 1962
Myzus certus Walker
N (Helper component required), Kennedy et al. 1962
Myzus ornatus Laing
N (Helper component required), Kennedy et al. 1962
Myzus persicae (Sulzer)
N (Helper component required), Kennedy et al. 1962
Phorodon humuli (Schrank)
N (Helper component required), van Hoof 1980

Rhopalosiphoninus staphyleae ssp. tulipaellus (Theobald)
N (Helper component required), Kennedy et al. 1962
Rhopalosiphum insertum (Walker)
N (Helper component required), van Hoof 1980

Potato virus Y [Potato virus C strain]
Potyvirus (1)
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Primula mosaic virus
"Potyvirus (1)"
Acyrthosiphon pisum (Harris)
N, Kennedy et al. 1962
Aphis fabae Scopoli
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Aphis helianthi Monell
N, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Brevicoryne brassicae (Linnaeus)
N, Kennedy et al. 1962
Dysaphis apiifolia (Theobald)
N, Kennedy et al. 1962
Myzus ornatus Laing
N, Kennedy et al. 1962

Primula mottle virus
Potyvirus (1)
Aphis gossypii Glover
N, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Rape savoy virus
Ungrouped
Aulacorthum circumflexum (Buckton)
U, Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
U, Kennedy et al. 1962
Brevicoryne brassicae (Linnaeus)
U, Kennedy et al. 1962
Myzus persicae (Sulzer)
U, Kennedy et al. 1962

Raspberry leaf curl virus
"Luteovirus"
Aphis idaei van der Goot
P, Kennedy et al. 1962

Aphis rubicola Oestlund
P, Kennedy et al. 1962

Raspberry leaf mottle virus
Ungrouped
Amphorophora rubi ssp. idaei (Börner)
U, Jones 1987

Raspberry leaf spot virus
Ungrouped
Amphorophora rubi ssp. idaei (Börner)
"N", Kennedy et al. 1962

Raspberry vein chlorosis virus
Rhabdovirus (A)
Aphis idaei van der Goot
P, Kennedy et al. 1962

Red clover vein mosaic virus
Carlavirus
Acyrthosiphon pisum (Harris)
N, Graves & Hagedorn 1956
Cavariella aegopodii (Scopoli)
N, Varma 1970
Cavariella theobaldi (Gillette & Bragg)
N, Varma 1970
Myzus persicae (Sulzer)
N, Graves & Hagedorn 1956
Therioaphis trifolii forma maculata (Buckton)
N, Graves & Hagedorn 1956

Red currant vein banding virus
Ungrouped
Aphis schneideri (Börner)
U, van der Meer 1987
Aphis triglochinis Theobald
U, van der Meer 1987
Cryptomyzus galeopsidis ssp. citrinus Hille Ris Lambers
U, van der Meer 1987
Cryptomyzus ribis (Linnaeus)
U, van der Meer 1987
Hyperomyzus lactucae (Linnaeus)
U, van der Meer 1987
Myzus persicae (Sulzer)
U, van der Meer 1987
Nasonovia ribisnigri (Mosley)
U, van der Meer 1987

Rhubarb mosaic virus
Ungrouped
Macrosiphum euphorbiae (Thomas)
U, Kennedy et al. 1962

Myzus persicae (Sulzer)
U, Kennedy et al. 1962

Rice giallume virus
Luteovirus
Rhopalosiphum padi (Linnaeus)
"P", Blackman & Eastop 1984

Rubus yellow net virus
"Bacillivirus"
Amphorophora agathonica Hottes
S, Stace-Smith & Jones 1978
Amphorophora rubi ssp. idaei (Börner)
S, Stace-Smith & Jones 1978
Aphis idaei van der Goot
N, Kennedy et al. 1962

Shallot latent virus
Carlavirus
Aphis fabae Scopoli
N, Bos 1982
Myzus ascalonicus Doncaster
N, Bos 1982

Sonchus yellow net virus
Rhabdovirus (B)
Aphis coreopsidis (Thomas)
U, Jackson & Christie 1979

Sowbane mosaic virus
Sobemovirus
Myzus persicae (Sulzer)
N, Bennett & Costa 1961

Sowthistle yellow vein virus
Rhabdovirus (B)
Hyperomyzus lactucae (Linnaeus)
N, Duffus 1963

Soybean dwarf virus
Luteovirus
Aulacorthum solani (Kaltenbach)
P, Tamada & Kojima 1977

Soybean mild mosaic virus
Ungrouped
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Soybean mosaic virus
Potyvirus (1)
Acyrthosiphon pisum (Harris)
N, Kennedy et al. 1962

Aphis fabae Scopoli
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Aphis nasturtii Kaltenbach
N, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Hysteroneura setariae (Thomas)
"N", Blackman & Eastop 1984
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Myzus ornatus Laing
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Soybean stunt virus
Cucumovirus
Aphis craccivora Koch
N, Crabtree & Gibbs 1989
Aphis glycines Matsumura
N, Crabtree & Gibbs 1989
Aulacorthum solani (Kaltenbach)
N, Crabtree & Gibbs 1989
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989
Rhopalosiphum padi (Linnaeus)
N, Crabtree & Gibbs 1989

Spinach yellow dwarf virus
Ungrouped
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Strawberry crinkle virus
Rhabdovirus (A)
Aphis forbesi Weed
P, Frazier et al. 1987
Chaetosiphon fragaefolii (Cockerell)
P, Kennedy et al. 1962
Chaetosiphon jacobi Hille Ris Lambers
P, Kennedy et al. 1962
Chaetosiphon tetrarhodum (Walker)
P, Kennedy et al. 1962
Rhodobium porosum (Sanderson)
U, Blackman & Eastop 1984
Strawberry crinkle virus [Strawberry lesion virus strain]
Rhabdovirus (A)
Chaetosiphon fragaefolii (Cockerell)
P, Kennedy et al. 1962

Chaetosiphon jacobi Hille Ris Lambers
P, Kennedy et al. 1962

Strawberry crinkle virus [Strawberry vein chlorosis virus strain]
Rhabdovirus (A)
Chaetosiphon fragaefolii (Cockerell)
P, Kennedy et al. 1962

Strawberry latent C virus
Ungrouped
Chaetosiphon fragaefolii (Cockerell)
P, McGrew 1987

Strawberry mild yellow edge virus
Luteovirus
Chaetosiphon fragaefolii (Cockerell)
P, Crabtree & Gibbs 1989
Chaetosiphon jacobi Hille Ris Lambers
P, Crabtree & Gibbs 1989
Chaetosiphon minor (Forbes)
P, Converse et al. 1987
Chaetosiphon thomasi Hille Ris Lambers
P, Crabtree & Gibbs 1989
Macrosiphum rosae (Linnaeus)
P, Kennedy et al. 1962
Myzus persicae (Sulzer)
P, Converse et al. 1987

Strawberry mottle virus
Ungrouped
Acyrthosiphon malvae (Mosley)
S, Mellor & Krczal 1987
Acyrthosiphon malvae ssp. rogersii (Theobald)
S, Mellor & Krczal 1987
Aphis gossypii Glover
S, Mellor & Krczal 1987
Chaetosiphon fragaefolii (Cockerell)
S, Mellor & Krczal 1987
Chaetosiphon jacobi Hille Ris Lambers
S, Mellor & Krczal 1987
Chaetosiphon minor (Forbes)
S, Mellor & Krczal 1987
Chaetosiphon tetrarhodum (Walker)
S, Mellor & Krczal 1987
Chaetosiphon thomasi Hille Ris Lambers
S, Mellor & Krczal 1987
Myzaphis rosarum (Kaltenbach)
S, Mellor & Krczal 1987
Myzus ascalonicus Doncaster
"N", Blackman & Eastop 1984
Rhodobium porosum (Sanderson)
S, Mellor & Krczal 1987

Strawberry stunt virus
Ungrouped
Chaetosiphon fragaefolii (Cockerell)
U, Kennedy et al. 1962

Strawberry vein banding virus
Caulimovirus
Acyrthosiphon malvae (Mosley)
N, Kennedy et al. 1962
Amphorophora agathonica Hottes
S, Frazier & Converse 1980
Aphis idaei van der Goot
N, Kennedy et al. 1962
Aphis rubifolii (Thomas)
S, Frazier & Converse 1980
Aulacorthum solani (Kaltenbach)
S, Frazier & Converse 1980
Chaetosiphon fragaefolii (Cockerell)
S, Frazier & Converse 1980
Chaetosiphon jacobi Hille Ris Lambers
S, Frazier & Converse 1980
Chaetosiphon tetrarhodum (Walker)
S, Frazier & Converse 1980
Chaetosiphon thomasi Hille Ris Lambers
S, Frazier & Converse 1980
Macrosiphum rosae (Linnaeus)
S, Frazier & Converse 1980
Myzus ascalonicus Doncaster
S, Frazier & Converse 1980
Myzus ornatus Laing
S, Frazier & Converse 1980
Myzus persicae (Sulzer)
S, Frazier & Converse 1980

Subterranean clover red leaf virus
Luteovirus
Acyrthosiphon pisum (Harris)
P, Crabtree & Gibbs 1989
Aulacorthum circumflexum (Buckton)
P, Crabtree & Gibbs 1989
Macrosiphum euphorbiae (Thomas)
P, Crabtree & Gibbs 1989

Subterranean clover stunt virus
"Geminivirus"
Aphis craccivora Koch
P, Crabtree & Gibbs 1989
Aphis gossypii Glover
P, Crabtree & Gibbs 1989
Macrosiphum euphorbiae (Thomas)
P, Crabtree & Gibbs 1989

Myzus persicae (Sulzer)
P, Crabtree & Gibbs 1989

Sugarcane mosaic virus
Potyvirus (1)
Aphis gossypii Glover
N, Kennedy et al. 1962
Aphis nerii Boyer de Fonscolombe
N, Kennedy et al. 1962
Carolinaia cyperi Ainslie
N, Kennedy et al. 1962
Hysteroneura setariae (Thomas)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962
Rhopalosiphum maidis (Fitch)
N, Kennedy et al. 1962
Rhopalosiphum padi (Linnaeus)
"N", Blackman & Eastop 1984
Schizaphis graminum (Rondani)
N, Kennedy et al. 1962
Sipha flava (Forbes)
N, Kennedy et al. 1962
Uroleucon ambrosiae (Thomas)
N, Pirone 1972

Sugarcane mosaic virus [Abaca mosaic virus strain]
Potyvirus (1)
Aphis glycines Matsumura
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Rhopalosiphum maidis (Fitch)
N, Kennedy et al. 1962
Rhopalosiphum nymphaeae (Linnaeus)
N, Kennedy et al. 1962
Rhopalosiphum padi (Linnaeus)
N, Kennedy et al. 1962
Schizaphis hypersiphonata Basu
U, Blackman & Eastop 1984
Toxoptera citricidus (Kirkaldy)
N, Kennedy et al. 1962

Sweet potato feathery mottle virus
Potyvirus (1)
Aphis craccivora Koch
N, Crabtree & Gibbs 1989
Aphis fabae Scopoli
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Lipaphis erysimi (Kaltenbach)
N, Crabtree & Gibbs 1989

Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Sweet potato internal cork virus
Ungrouped
Aphis gossypii Glover
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Sweet potato vein mosaic virus
Potyvirus (1)
Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Sweet potato virus A
"Potyvirus (1)"
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Swordbean distortion mosaic virus
Potyvirus (1)
Aphis gossypii Glover
N, Crabtree & Gibbs 1989
Rhopalosiphum maidis (Fitch)
N, Crabtree & Gibbs 1989
Uroleucon sonchi (Linnaeus)
N, Crabtree & Gibbs 1989

Tamarillo mosaic virus
Potyvirus (1)
Myzus persicae (Sulzer)
N, Mossop 1977

Teasel mosaic virus
"Potyvirus (1)"
Macrosiphum rosae (Linnaeus)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Telfairia mosaic virus
Potyvirus (1)
Aphis spiraecola Patch
N, Crabtree & Gibbs 1989

Thimbleberry ringspot virus
Ungrouped
Amphorophora parviflori Hill
N, Kennedy et al. 1962

Illinoia davidsoni (Mason)
N, Kennedy et al. 1962
Illinoia maxima (Mason)
N, Kennedy et al. 1962

Tigridia mosaic virus
Potyvirus (1)
Aphis gossypii Glover
N, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Macrosiphum lilii (Monell)
N, Kennedy et al. 1962

Tobacco etch virus
Potyvirus (1)
Aphis fabae Scopoli
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Aphis nasturtii Kaltenbach
N, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Myzus ascalonicus Doncaster
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Tobacco etch virus [Datura etch virus strain]
Potyvirus (1)
Aphis gossypii Glover
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Tobacco mottle virus
Ungrouped
Aulacorthum solani (Kaltenbach)
"P" (Helper virus required), Kennedy et al. 1962
Myzus persicae (Sulzer)
"P" (Helper virus required), Kennedy et al. 1962

Tobacco necrotic dwarf virus
Luteovirus
Aulacorthum solani (Kaltenbach)
P, Kubo 1981
Myzus persicae (Sulzer)
P, Kubo 1981

Tobacco ringspot virus
Nepovirus

Aphis gossypii Glover
N, Rani et al. 1969
Myzus persicae (Sulzer)
N, Rani et al. 1969

Tobacco ringspot virus [Begonia strain]
Nepovirus
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Tobacco vein distorting virus
"Luteovirus"
Aulacorthum solani (Kaltenbach)
P, Kennedy et al. 1962
Myzus persicae (Sulzer)
P, Kennedy et al. 1962

Tobacco vein mottling virus
Potyvirus (1)
Aphis craccivora Koch
N, Pirone & Shaw 1988
Aphis gossypii Glover
N, Pirone & Shaw 1988
Macrosiphum euphorbiae (Thomas)
N, Pirone & Shaw 1988
Myzus persicae (Sulzer)
N, Pirone & Shaw 1988
Rhopalosiphum maidis (Fitch)
N, Pirone & Shaw 1988
Rhopalosiphum padi (Linnaeus)
N, Pirone & Shaw 1988

Tobacco wilt virus
Potyvirus (1)
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Tobacco yellow vein assistor virus
"Luteovirus"
Myzus persicae (Sulzer)
P, Adams & Hull 1972

Tobacco yellow vein virus
Ungrouped
Myzus persicae (Sulzer)
P (Helper virus required), Crabtee & Gibbs 1989

Tomato aspermy virus
Cucumovirus
Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962

Myzus certus (Walker)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962
Phorodon humuli (Schrank)
N, Kennedy et al. 1962
Rhopalosiphoninus staphyleae ssp. tulipaellus (Theobald)
N, Kennedy et al. 1962

Tomato dwarfing virus
Ungrouped
Acyrthosiphon caraganae (Cholodkovsky)
N, Kennedy et al. 1962
Aphis fabae Scopoli
N, Kennedy et al. 1962
Coloradoa rufomaculata (Wilson)
N, Kennedy et al. 1962
Hyadaphis foeniculi (Passerini)
N, Kennedy et al. 1962
Myzus ascalonicus Doncaster
N, Kennedy et al. 1962
Myzus ornatus Laing
N, Kennedy et al. 1962
Phorodon humuli (Schrank)
N, Kennedy et al. 1962

Tomato yellow net virus
"Luteovirus"
Myzus persicae (Sulzer)
P, Kennedy et al. 1962

Tulip breaking virus
Potyvirus (1)
Aphis fabae Scopoli
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Dysaphis tulipae (Boyer de Fonscolombe)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Turnip mosaic virus
Potyvirus (1)
Acyrthosiphon pisum (Harris)
N, Kennedy et al. 1962
Aphis acetosae Linnaeus
N, Kennedy et al. 1962

Aphis craccivora Koch
N, Kennedy et al. 1962
Aphis fabae Scopoli
N, Kennedy et al. 1962
Aphis genistae Scopoli
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Aphis helianthemi Ferrari
N, Kennedy et al. 1962
Aphis medicaginis Koch
N, Kennedy et al. 1962
Aphis nasturtii Kaltenbach
N, Kennedy et al. 1962
Aphis pomi de Geer
N, Kennedy et al. 1962
Aphis praeterita Walker
N, Kennedy et al. 1962
Aphis sambuci Linnaeus
N, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Aulacorthum solani ssp. aegopodii Börner
N, Kennedy et al. 1962
Brachycaudus cardui (Linnaeus)
N, Kennedy et al. 1962
Brevicoryne brassicae (Linnaeus)
N, Kennedy et al. 1962
Capitophorus elaeagni (del Guercio)
N, Kennedy et al. 1962
Capitophorus hippophaes (Walker)
N, Kennedy et al. 1962
Cavariella pastinacae (Linnaeus)
N, Kennedy et al. 1962
Coloradoa rufomaculata (Wilson)
N, Kennedy et al. 1962
Cryptomyzus ribis (Linnaeus)
N, Kennedy et al. 1962
Dysaphis radicola (Mordvilko)
N, Kennedy et al. 1962
Hyadaphis foeniculi (Passerini)
N, Kennedy et al. 1962
Hyperomyzus lactucae (Linnaeus)
N, Kennedy et al. 1962
Lipaphis erysimi (Kaltenbach)
N, Kennedy et al. 1962
Lipaphis fritzmuelleri Börner
N, Kennedy et al. 1962
Macrosiphoniella artemisiae (Boyer de Fonscolombe)
N, Kennedy et al. 1962

Macrosiphoniella millefolii (de Geer)
N, Kennedy et al. 1962
Macrosiphoniella sanborni (Gillette)
N, Kennedy et al. 1962
Macrosiphoniella tanacetaria (Kaltenbach)
N, Kennedy et al. 1962
Macrosiphum daphnidis Börner
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Macrosiphum rosae (Linnaeus)
N, Kennedy et al. 1962
Megoura viciae Buckton
N, Kennedy et al. 1962
Microlophium primulae (Theobald)
N, Kennedy et al. 1962
Myzus ascalonicus Doncaster
N, Kennedy et al. 1962
Myzus certus (Walker)
N, Kennedy et al. 1962
Myzus ornatus Laing
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962
Phorodon humuli (Schrank)
N, Kennedy et al. 1962
Rhopalomyzus lonicerae (Siebold)
N, Kennedy et al. 1962
Rhopalosiphoninus staphyleae ssp. tulipaellus (Theobold)
N, Kennedy et al. 1962
Rhopalosiphum nymphaeae (Linnaeus)
N, Kennedy et al. 1962
Uroleucon rapunculoidis (Börner)
N, Kennedy et al. 1962

Turnip mosaic virus [Anemone mosaic virus strain]
Potyvirus (1)
Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Brevicoryne brassicae (Linnaeus)
N, Kennedy et al. 1962
Macrosiphum euphorbiae (Thomas)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Turnip mosaic virus [Cabbage ring necrosis virus strain]
Potyvirus (1)
Brevicoryne brassicae (Linnaeus)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Turnip mosaic virus [Radish mosaic virus strain]
Potyvirus (1)
Acyrthosiphon pisum (Harris)
N, Kennedy et al. 1962
Aphis fabae Scopoli
N, Kennedy et al. 1962
Aphis gossypii Glover
N, Kennedy et al. 1962
Aphis helianthi Monell
N, Kennedy et al. 1962
Aulacorthum circumflexum (Buckton)
N, Kennedy et al. 1962
Aulacorthum solani (Kaltenbach)
N, Kennedy et al. 1962
Brevicoryne brassicae (Linnaeus)
N, Kennedy et al. 1962
Cavariella aegopodii (Scopoli)
N, Kennedy et al. 1962
Dysaphis apiifolia (Theobald)
N, Kennedy et al. 1962
Hyadaphis foeniculi (Passerini)
N, Kennedy et al. 1962
Lipaphis erysimi (Kaltenbach)
N, Kennedy et al. 1962
Myzus ornatus Laing
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Turnip mosaic virus [Stock mosaic virus strain]
Potyvirus (1)
Acyrthosiphon pisum (Harris)
N, Kennedy et al. 1962
Aphis craccivora (Koch)
N, Kennedy et al. 1962
Brevicoryne brassicae (Linnaeus)
N, Kennedy et al. 1962
Capitophorus elaeagni (del Guercio)
N, Kennedy et al. 1962
Lipaphis erysimi (Kaltenbach)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Ullucus mosaic virus
Potyvirus (1)
Myzus persicae (Sulzer)
N, Brunt et al. 1982

Vanilla mosaic virus
Potyvirus (1)

Myzus persicae (Sulzer)
N, Crabtree & Gibbs 1989

Watercress mosaic virus
Ungrouped
Aphis fabae Scopoli
N, Kennedy et al. 1962
Brevicoryne brassicae (Linnaeus)
N, Kennedy et al. 1962
Myzus persicae (Sulzer)
N, Kennedy et al. 1962

Watermelon mosaic virus 2
Potyvirus (1)
Acyrthosiphon pisum (Harris)
N (Helper component required), Karl & Schmelzer 1971
Aphis craccivora Koch
N (Helper component required), Karl & Schmelzer 1971
Aphis fabae Scopoli
N (Helper component required), Karl & Schmelzer 1971
Aphis gossypii Glover
N (Helper component required), Karl & Schmelzer 1971
Aphis nasturtii Kaltenbach
N (Helper component required), Karl & Schmelzer 1971
Aphis sambuci Linnaeus
N (Helper component required), Karl & Schmelzer 1971
Aphis spiraecola Patch
N (Helper component required), Adlerz 1974
Aulacorthum circumflexum (Buckton)
N (Helper component required), Karl & Schmelzer 1971
Aulacorthum solani (Kaltenbach)
N (Helper component required), Karl & Schmelzer 1971
Brachycaudus cardui (Linnaeus)
N (Helper component required), Karl & Schmelzer 1971
Cryptomyzus ribis (Linnaeus)
N (Helper component required), Karl & Schmelzer 1971
Dysaphis crataegi (Kaltenbach)
N (Helper component required), Karl & Schmelzer 1971
Hyalopterus pruni (Geoffroy)
N (Helper component required), Karl & Schmelzer 1971
Macrosiphoniella sanborni (Gillette)
N (Helper component required), Karl & Schmelzer 1971
Macrosiphum euphorbiae (Thomas)
N (Helper component required), Karl & Schmelzer 1971
Myzus cerasi (Fabricius)
N (Helper component required), Karl & Schmelzer 1971
Myzus persicae (Sulzer)
N (Helper component required), Karl & Schmelzer 1971
Phorodon humuli (Schrank)
N (Helper component required), Karl & Schmelzer 1971
Rhopalosiphum padi (Linnaeus)
N (Helper component required), Karl & Schmelzer 1971

Semiaphis dauci (Fabricius)
N (Helper component required), Karl & Schmelzer 1971
Toxoptera citricidus (Kirkaldy)
N (Helper component required), Purcifull et al. 1984

Wheat yellow leaf virus
Closterovirus
Rhopalosiphum maidis (Fitch)
S, Inouye 1976
Rhopalosiphum padi (Linnaeus)
S, Crabtree & Gibbs 1989

Yam mosaic virus
Potyvirus (1)
Aphis craccivora Koch
N, Thouvenel & Fauquet 1986
Aphis gossypii Glover
N, Thouvenel & Fauquet 1986
Rhopalosiphum maidis (Fitch)
N, Thouvenel & Fauquet 1986
Toxoptera citricidus (Kirkaldy)
N, Thouvenel & Fauquet 1986

Zucchini yellow mosaic virus
Potyvirus (1)
Acyrthosiphon pisum (Harris)
N (Helper component required), Crabtree & Gibbs 1989
Aphis armoraciae Cowen
N (Helper component required), Crabtree & Gibbs 1989
Aphis craccivora Koch
N (Helper component required), Crabtree & Gibbs 1989
Aphis gossypii Glover
N (Helper component required), Lisa & Lecoq 1984
Aphis spiraecola Patch
N (Helper component required), Lisa & Lecoq 1984
Lipaphis erysimi (Kaltenbach)
N (Helper component required), Crabtree & Gibbs 1989
Macrosiphum euphorbiae (Thomas)
N (Helper component required), Lisa & Lecoq 1984
Myzus persicae (Sulzer)
N (Helper component required), Lisa & Lecoq 1984
Uroleucon sp.
N (Helper component required), Crabtree & Gibbs 1989

* " " Indicates tentative transmission type.
** " " Indicates tentative member of the group.
N Nonpersistent transmission type.
P Persistent transmission type.
S Semipersistent transmission type.
U Unknown transmission type.

* *Acyrthosiphon caraganae* (Cholodkovsky)
Cucumber mosaic virus
Tomato dwarfing virus

Acyrthosiphon gossypii Mordvilko
Bean leaf roll virus
Bean yellow mosaic virus

Acyrthosiphon kondoi Shinji
Bean yellow mosaic virus

* *Acyrthosiphon lactucae* (Passerini)
Bean yellow mosaic virus
Cucumber mosaic virus
Lettuce mosaic virus
Papaya ringspot (type P & W) virus

* *Acyrthosiphon malvae* (Mosley)
Filaree red leaf virus
Strawberry mottle virus
Strawberry vein banding virus

* *Acyrthosiphon malvae ssp. rogersii* (Theobald)
Strawberry mottle virus

* *Acyrthosiphon pisum* (Harris)
Alfalfa (Michigan) virus
Alfalfa mosaic virus
Bean big vein virus
Bean common mosaic virus
Bean leaf roll virus
Bean yellow mosaic virus
Bean yellow vein banding virus
Beet mosaic virus
Beet yellows virus
Bidens mottle virus
Broad bean mild mosaic virus
Broad bean severe chlorosis virus
Broad bean wilt virus
Cauliflower mosaic virus
Celery mosaic virus
Clover mild mosaic virus
Clover yellow vein virus
Cowpea aphid-borne mosaic virus
Cucumber mosaic virus
Legume yellows virus
Milk vetch dwarf virus
Millet red leaf virus
Narcissus latent virus

Narcissus yellow stripe virus
Nasturtium ringspot virus
Onion yellow dwarf virus
Papaya ringspot (type P & W) virus
Pea enation mosaic virus
Pea seed-borne mosaic virus
Pea streak virus
Pea streak virus [Alfalfa latent virus strain]
Potato virus Y
Primula mosaic virus
Red clover vein mosaic virus
Soybean mosaic virus
Subterranean clover red leaf virus
Turnip mosaic virus
Turnip mosaic virus [Radish mosaic virus strain]
Turnip mosaic virus [Stock mosaic virus strain]
Watermelon mosaic virus 2
Zucchini yellow mosaic virus

* *Amphorophora agathonica* Hottes
Black raspberry necrosis virus
Rubus yellow net virus
Strawberry vein banding virus

* *Amphorophora parviflori* Hill
Thimbleberry ringspot virus

* *Amphorophora rossi* Hottes & Frison
Onion yellow dwarf virus

Amphorophora rubi ssp. idaei (Börner)
Black raspberry necrosis virus
Cucumber mosaic virus
Raspberry leaf mottle virus
Raspberry leaf spot virus
Rubus yellow net virus

Amphorophora rubicumberlandi Knowlton & Allen
Black raspberry necrosis virus

* *Amphorophora rubitoxica* Knowlton
Cucumber mosaic virus

Amphorophora sensoriata Mason
Black raspberry necrosis virus

Anuraphis subterranea (Walker)
Cucumber mosaic virus

Aphis acetosae Linnaeus
Turnip mosaic virus

Aphis affinis del Guercio
Cucumber mosaic virus

Aphis apigraveolens Essig
Beet mosaic virus
Cauliflower mosaic virus
Celery mosaic virus
Celery mosaic virus [Celery crinkle leaf mosaic virus strain]
Poison hemlock ringspot virus

* *Aphis armoraciae* Cowen
Beet mosaic virus
Cauliflower mosaic virus
Celery mosaic virus
Poison hemlock ringspot virus
Zucchini yellow mosaic virus

Aphis confusa Walker
Cucumber mosaic virus

Aphis coreopsidis (Thomas)
Onion yellow dwarf virus
Sonchus yellow net virus

* *Aphis craccae* Linnaeus
Bean yellow mosaic virus
Cucumber mosaic virus

* *Aphis craccivora* Koch
Alfalfa (Michigan) virus
Alfalfa mosaic virus
Azuki bean mosaic virus
Bean common mosaic virus
Bean leaf roll virus
Bean leaf roll virus [chickpea stunt virus strain]
Bean yellow mosaic virus
Beet mosaic virus
Beet western yellows virus
Bidens mottle virus
Blackeye cowpea mosaic virus
Broad bean (Indian) mosaic virus
Broad bean wilt virus
Canavalia maritima mosaic virus
Centrosema mosaic virus
Chickpea distortion mosaic virus
Clover yellows virus
Cotton curliness (Azerbaijan) virus
Cowpea aphid-borne mosaic virus
Cowpea stunt virus
Crotalaria (Sann Hemp) mosaic virus
Cucumber mosaic virus
Dasheen mosaic virus
Desmodium mosaic virus

Dioscorea alata ring mottle virus
Groundnut eyespot virus
Groundnut mottle virus
Groundnut rosette assistor virus
Groundnut rosette virus
Lucerne enation virus
Milk vetch dwarf virus
Millet red leaf virus
Onion yellow dwarf virus
Papaya ringspot (type P & W) virus
Passionfruit woodiness virus
Pea seed-borne mosaic virus
Peanut mild mottle virus
Peanut mottle virus
Peanut stripe virus
Peanut stunt virus
Peanut stunt virus [Robinia mosaic virus strain]
Pepper mottle virus
Soybean stunt virus
Subterranean clover stunt virus
Sweet potato feathery mottle virus
Tobacco vein mottling virus
Turnip mosaic virus
Turnip mosaic virus [Stock mosaic virus strain]
Watermelon mosaic virus 2
Yam mosaic virus
Zucchini yellow mosaic virus

Aphis cuscutae Davis
Beet yellows virus

* *Aphis cytisorum* Hartig
Dahlia mosaic virus
Laburnum mosaic virus

Aphis decepta Hottes & Frison
Onion yellow dwarf virus

* *Aphis fabae* Scopoli
Alfalfa mosaic virus
Bean common mosaic virus
Bean yellow mosaic virus
Beet mosaic virus
Beet yellow net virus
Beet yellows virus
Broad bean fireblight virus
Broad bean mild mosaic virus
Broad bean virus V
Broad bean wilt virus
Cauliflower mosaic virus
Celery mosaic virus
Cowpea aphid-borne mosaic virus

Cucumber mosaic virus
Dahlia mosaic virus
Dioscorea alata ring mottle virus
Dioscorea green-banding mosaic virus
Filaree red leaf virus
Hippeastrum mosaic virus
Iris (beardless) mosaic virus
Iris fulva mosaic virus
Leek yellow stripe virus
Narcissus yellow stripe virus
Nasturtium mosaic virus
Nasturtium ringspot virus
Onion yellow dwarf virus
Papaya ringspot (type P & W) virus
Pea seed-borne mosaic virus
Poison hemlock ringspot virus
Potato leafroll virus
Potato virus Y
Primula mosaic virus
Shallot latent virus
Soybean mosaic virus
Sweet potato feathery mottle virus
Tobacco etch virus
Tomato dwarfing virus
Tulip breaking virus
Turnip mosaic virus
Turnip mosaic virus [Radish mosaic virus strain]
Watercress mosaic virus
Watermelon mosaic virus 2

Aphis fabae ssp. cirsiiacanthoidis Scopoli
Cucumber mosaic virus

Aphis fabae ssp. solanella Theobald
Chilli mosaic virus
Cowpea aphid-borne mosaic virus

* *Aphis forbesi* Weed
Onion yellow dwarf virus
Strawberry crinkle virus

Aphis frangulae Kaltenbach
Potato virus A
Potato virus M
Potato virus Y

Aphis gambir (Börner ex Schneider) [nomen nudum]
Gambir mosaic virus

Aphis genistae Scopoli
Nasturtium mosaic virus
Turnip mosaic virus

Aphis glycines Matsumura
Bean yellow mosaic virus
Beet mosaic virus
Indonesian soybean dwarf virus
Millet red leaf virus
Mungbean mosaic virus
Soybean stunt virus
Sugarcane mosaic virus [Abaca mosaic virus strain]

* *Aphis gossypii* Glover
Alfalfa mosaic virus
Arracacha virus Y
Bean common mosaic virus
Bean leaf roll virus
Bean yellow mosaic virus
Bean yellow mosaic virus [Canna mosaic virus strain]
Beet mosaic virus
Beet western yellows virus
Beet yellows virus
Broad bean (Indian) mosaic virus
Canavalia maritima mosaic virus
Cauliflower mosaic virus
Celery mosaic virus
Centrosema mosaic virus
Chickpea distortion mosaic virus
Chilli mosaic virus
Chinese yam necrotic mosaic virus
Citrus tristeza virus
Commelina mosaic virus
Cotton anthocyanosis virus
Cotton curliness (Azerbaijan) virus
Cowpea aphid-borne mosaic virus
Cowpea aphid-borne mosaic virus [Crotalaria mosaic virus strain]
Crotalaria (Sann Hemp) mosaic virus
Cucumber mosaic virus
Cucumber mosaic virus [Banana mosaic virus strain]
Dahlia mosaic virus
Dasheen mosaic virus
Datura distortion mosaic virus
Dioscorea trifida virus
Groundnut rosette assistor virus
Hippeastrum mosaic virus
Iris mild mosaic virus
Lettuce mosaic virus
Lily rosette virus
Lily symptomless virus
Malva yellows virus
Milk vetch dwarf virus
Millet red leaf virus
Mulberry mosaic virus

Narcissus latent virus
Nasturtium mosaic virus
Onion yellow dwarf virus
Ornithogalum mosaic virus
Papaya ringspot (type P & W) virus
Passiflora ringspot virus
Passionfruit woodiness virus
Pea enation mosaic virus
Peanut green mosaic virus
Peanut mottle virus
Pepper mottle virus
Pepper veinal mottle virus
Poison hemlock ringspot virus
Potato aucuba mosaic virus
Potato virus Y
Primula mosaic virus
Primula mottle virus
Soybean mosaic virus
Strawberry mottle virus
Subterranean clover stunt virus
Sugarcane mosaic virus
Sugarcane mosaic virus [Abaca mosaic virus strain]
Sweet potato feathery mottle virus
Sweet potato internal cork virus
Swordbean distortion mosaic virus
Tigridia mosaic virus
Tobacco etch virus
Tobacco etch virus [Datura etch virus strain]
Tobacco ringspot virus
Tobacco vein mottling virus
Tulip breaking virus
Turnip mosaic virus
Turnip mosaic virus [Radish mosaic virus strain]
Watermelon mosaic virus 2
Yam mosaic virus
Zucchini yellow mosaic virus

Aphis grossulariae Kaltenbach
Cucumber mosaic virus
Gooseberry vein banding virus

Aphis helianthemi Ferrari
Turnip mosaic virus

* *Aphis helianthi* Monell
Bean yellow mosaic virus
Beet mosaic virus
Celery mosaic virus
Onion yellow dwarf virus
Poison hemlock ringspot virus
Primula mosaic virus
Turnip mosaic virus [Radish mosaic virus strain]

* *Aphis idaei* van der Goot
Raspberry leaf curl virus
Raspberry vein chlorosis virus
Rubus yellow net virus
Strawberry vein banding virus

Aphis medicaginis Koch
Cowpea aphid-borne mosaic virus
Turnip mosaic virus

* *Aphis nasturtii* Kaltenbach
Beet mosaic virus
Beet yellows virus
Broad bean wilt virus
Cucumber mosaic virus
Papaya ringspot (type P & W) virus
Potato aucuba mosaic virus
Potato leafroll virus
Potato virus A
Potato virus M
Potato virus Y
Soybean mosaic virus
Tobacco etch virus
Turnip mosaic virus
Watermelon mosaic virus 2

Aphis nerii Boyer de Fonscolombe
Araujia mosaic virus
Chilli mosaic virus
Papaya ringspot (type P & W) virus
Sugarcane mosaic virus

Aphis oenotherae Oestlund
Onion yellow dwarf virus

Aphis oestlundi Gillette
Onion yellow dwarf virus

Aphis plantaginis Goeze
Cucumber mosaic virus

* *Aphis pomi* de Geer
Onion yellow dwarf virus
Turnip mosaic virus

* *Aphis praeterita* Walker
Cucumber mosaic virus
Turnip mosaic virus

Aphis rubicola Oestlund
Raspberry leaf curl virus

Aphis rubifolii (Thomas)
Strawberry vein banding virus

Aphis ruborum (Börner)
Cucumber mosaic virus

* *Aphis rumicis* Linnaeus
Dock (New Zealand) mosaic virus

* *Aphis sambuci* Linnaeus
Beet yellows virus
Elder mosaic virus
Onion yellow dwarf virus
Papaya ringspot (type P & W) virus
Turnip mosaic virus
Watermelon mosaic virus 2

Aphis schneideri (Börner)
Cucumber mosaic virus
Gooseberry vein banding virus
Red currant vein banding virus

Aphis serpylli Koch
Cucumber mosaic virus

* *Aphis spiraecola* Patch
Alfalfa mosaic virus
Alfalfa mosaic virus [Viburnum strain]
Araujia mosaic virus
Bean common mosaic virus
Beet mosaic virus
Bidens mottle virus
Citrus tristeza virus
Cucumber mosaic virus
Papaya ringspot (type P & W) virus
Passiflora ringspot virus
Peanut stunt virus
Pepper veinal mottle virus
Plum pox virus
Potato virus Y
Telfairia mosaic virus
Watermelon mosaic virus 2
Zucchini yellow mosaic virus

Aphis triglochinis Theobald
Red currant vein banding virus

Aphis umbrella (Börner)
Papaya ringspot (type P & W) virus

Aphis urticata Gmelin
Cucumber mosaic virus

Aphis verbasci Schrank
Cucumber mosaic virus

* *Aulacorthum circumflexum* (Buckton)
Alfalfa mosaic virus
Barley yellow dwarf virus
Bean yellow mosaic virus
Bean yellow mosaic virus [Canna mosaic virus strain]
Beet mosaic virus
Cauliflower mosaic virus
Celery mosaic virus
Celery mosaic virus [Celery crinkle leaf mosaic virus strain]
Cucumber mosaic virus
Dahlia mosaic virus
Henbane mosaic virus
Nasturtium mosaic virus
Onion mosaic virus
Onion yellow dwarf virus
Ornithogalum mosaic virus
Papaya ringspot (type P & W) virus
Poison hemlock ringspot virus
Potato aucuba mosaic virus
Potato leafroll virus
Potato virus A
Potato virus Y
Primula mosaic virus
Rape savoy virus
Soybean mosaic virus
Subterranean clover red leaf virus
Tigridia mosaic virus
Tobacco etch virus
Tulip breaking virus
Turnip mosaic virus
Turnip mosaic virus [Radish mosaic virus strain]
Watermelon mosaic virus 2

* *Aulacorthum solani* (Kaltenbach)
Ajuga virus
Alfalfa (Michigan) virus
Alfalfa mosaic virus
Bean leaf roll virus
Bean yellow mosaic virus
Beet mosaic virus
Beet western yellows virus
Beet yellow net virus
Black raspberry necrosis virus
Cauliflower mosaic virus
Celery mosaic virus
Celery mosaic virus [Celery crinkle leaf mosaic virus strain]

Chrysanthemum good news mosaic virus
Chrysanthemum virus B
Clover yellow vein virus
Cucumber mosaic virus
Dahlia mosaic virus
Dandelion yellow mosaic virus
Filaree red leaf virus
Legume yellows virus
Milk vetch dwarf virus
Narcissus yellow stripe virus
Onion mosaic virus
Onion yellow dwarf virus
Papaya ringspot (type P & W) virus
Pea enation mosaic virus
Poison hemlock ringspot virus
Potato aucuba mosaic virus
Potato leaf rolling mosaic virus
Potato virus A
Potato virus Y
Primula mosaic virus
Rape savoy virus
Soybean dwarf virus
Soybean mosaic virus
Soybean stunt virus
Strawberry vein banding virus
Tobacco mottle virus
Tobacco necrotic dwarf virus
Tobacco vein distorting virus
Tomato aspermy virus
Turnip mosaic virus
Turnip mosaic virus [Anemone mosaic virus strain]
Turnip mosaic virus [Radish mosaic virus strain]
Watermelon mosaic virus 2

Aulacorthum solani ssp. aegopodii Börner
Turnip mosaic virus

* *Brachycaudus cardui* (Linnaeus)
Bean yellow mosaic virus
Cucumber mosaic virus
Onion yellow dwarf virus
Papaya ringspot (type P & W) virus
Plum pox virus
Turnip mosaic virus
Watermelon mosaic virus 2

* *Brachycaudus helichrysi* (Kaltenbach)
Beet western yellows virus
Centrosema mosaic virus
Cineraria mosaic virus
Cucumber mosaic virus
Dahlia mosaic virus

Papaya ringspot (type P & W) virus
Plum pox virus
Potato virus V
Potato virus Y

Brachycaudus lychnidis (Linnaeus)
Cucumber mosaic virus

Brachycaudus spiraeae Börner
Holodiscus witches' broom virus

* *Brevicoryne brassicae* (Linnaeus)
Bean common mosaic virus
Beet mosaic virus
Beet western yellows virus
Beet yellows virus
Brocoli necrotic yellows virus
Cauliflower mosaic virus
Celery mosaic virus
Cucumber mosaic virus
Nasturtium mosaic virus
Primula mosaic virus
Rape savoy virus
Turnip mosaic virus
Turnip mosaic virus [Anemone mosaic virus strain]
Turnip mosaic virus [Cabbage ring necrosis virus strain]
Turnip mosaic virus [Radish mosaic virus strain]
Turnip mosaic virus [Stock mosaic virus strain]
Watercress mosaic virus

Calaphis betulella Walsh
Onion yellow dwarf virus

* *Capitophorus elaeagni* (del Guercio)
Onion yellow dwarf virus
Turnip mosaic virus
Turnip mosaic virus [Stock mosaic virus strain]

* *Capitophorus hippophaes* (Walker)
Nasturtium mosaic virus
Turnip mosaic virus

Carolinaia cyperi Ainslie
Sugarcane mosaic virus

* *Cavariella aegopodii* (Scopoli)
Bean yellow mosaic virus
Beet mosaic virus
Carrot mottle virus
Carrot red leaf virus
Carrot thin leaf virus
Cauliflower mosaic virus

Celery mosaic virus
Heracleum latent virus
Papaya ringspot (type P & W) virus
Parsnip mosaic virus
Parsnip yellow fleck virus
Parsnip yellow fleck virus [Anthriscus yellows virus strain]
Poison hemlock ringspot virus
Red clover vein mosaic virus
Turnip mosaic virus [Radish mosaic virus strain]

* *Cavariella pastinacae* (Linnaeus)
Cauliflower mosaic virus
Celery mosaic virus
Heracleum latent virus
Parsnip yellow fleck virus
Potato virus Y
Turnip mosaic virus

Cavariella salicicola (Matsumura)
Millet red leaf virus

Cavariella theobaldi (Gillette & Bragg)
Heracleum latent virus
Parsnip mosaic virus
Parsnip yellow fleck virus
Red clover vein mosaic virus

* *Ceruraphis eriophori* (Walker)
Barley yellow dwarf virus

* *Ceruraphis viburnicola* (Gillette)
Onion yellow dwarf virus

* *Chaetosiphon fragaefolii* (Cockerell)
Bean yellow mosaic virus
Strawberry crinkle virus
Strawberry crinkle virus [Strawberry lesion virus strain]
Strawberry crinkle virus [Strawberry vein chlorosis virus strain]
Strawberry latent C virus
Strawberry mild yellow edge virus
Strawberry mottle virus
Strawberry stunt virus
Strawberry vein banding virus

Chaetosiphon jacobi Hille Ris Lambers
Strawberry crinkle virus
Strawberry crinkle virus [Strawberry lesion virus strain]
Strawberry mild yellow edge virus
Strawberry mottle virus
Strawberry vein banding virus

Chaetosiphon minor (Forbes)
Strawberry mild yellow edge virus
Strawberry mottle virus

* *Chaetosiphon tetrarhodum* (Walker)
Bean yellow mosaic virus
Blackberry dwarf virus
Strawberry crinkle virus
Strawberry mottle virus
Strawberry vein banding virus

* *Chaetosiphon thomasi* Hille Ris Lambers
Strawberry mild yellow edge virus
Strawberry mottle virus
Strawberry vein banding virus

Chaitophorus populeti (Panzer)
Cucumber mosaic virus

* *Chaitophorus populicola* Thomas
Onion yellow dwarf virus

* *Chaitophorus viminalis* Monell
Onion yellow dwarf virus

Coloradoa rufomaculata (Wilson)
Chrysanthemum virus B
Tomato dwarfing virus
Turnip mosaic virus

Coloradoa tanacetina (Walker)
Cucumber mosaic virus

Cryptomyzus alboapicalis (Theobald)
Lamium mild mosaic virus

* *Cryptomyzus galeopsidis* (Kaltenbach)
Cucumber mosaic virus

Cryptomyzus galeopsidis ssp. citrinus Hille Ris Lambers
Red currant vein banding virus

Cryptomyzus korschelti Börner
Cucumber mosaic virus

* *Cryptomyzus ribis* (Linnaeus)
Beet mosaic virus
Cauliflower mosaic virus
Cucumber mosaic virus
Dahlia mosaic virus
Gooseberry vein banding virus

Onion yellow dwarf virus
Papaya ringspot (type P & W) virus
Red currant vein banding virus
Turnip mosaic virus
Watermelon mosaic virus 2

Delphiniobium junackianum (Karsch)
Cucumber mosaic virus
Delphinium net mosaic virus

* *Diuraphis noxia* (Mordvilko ex Kurdjumov)
Barley yellow dwarf virus

Drepanaphis acerifoliae (Thomas)
Onion yellow dwarf virus

Dysaphis apiifolia (Theobold)
Beet mosaic virus
Cauliflower mosaic virus
Celery mosaic virus
Celery mosaic virus [Celery crinkle leaf mosaic virus strain]
Nasturtium mosaic virus
Poison hemlock ringspot virus
Primula mosaic virus
Turnip mosaic virus [Radish mosaic virus strain]

Dysaphis crataegi (Kaltenbach)
Bean yellow mosaic virus
Papaya ringspot (type P & W) virus
Watermelon mosaic virus 2

* *Dysaphis plantaginea* (Passerini)
Narcissus yellow stripe virus

Dysaphis radicola (Mordvilko)
Cauliflower mosaic virus
Turnip mosaic virus

* *Dysaphis tulipae* (Boyer de Fonscolombe)
Lily symptomless virus
Tulip breaking virus

Glabromyzus rhois (Monell)
Onion yellow dwarf virus

* *Hayhurstia atriplicis* (Linnaeus)
Bean common mosaic virus
Bean yellow mosaic virus
Beet mosaic virus
Beet yellows virus
Onion yellow dwarf virus

Hoplochaitophorus quercicola (Monell)
Onion yellow dwarf virus

* *Hyadaphis foeniculi* (Passerini)
Beet mosaic virus
Beet yellows virus
Cauliflower mosaic virus
Celery mosaic virus
Celery mosaic virus [Celery crinkle leaf mosaic virus strain]
Celery yellow spot virus
Cucumber mosaic virus
Honeysuckle latent virus
Nasturtium mosaic virus
Poison hemlock ringspot virus
Tomato dwarfing virus
Turnip mosaic virus
Turnip mosaic virus [Radish mosaic virus strain]

Hyalomyzus monardae (Davis)
Onion yellow dwarf virus

* *Hyalopteroides humilis* (Walker)
Cocksfoot streak virus

* *Hyalopterus pruni* (Geoffroy)
Celery mosaic virus
Cucumber mosaic virus
Millet red leaf virus
Onion yellow dwarf virus
Papaya ringspot (type P & W) virus
Plum pox virus
Watermelon mosaic virus 2

Hyperomyzus carduellinus (Theobald)
Lettuce necrotic yellows virus

* *Hyperomyzus lactucae* (Linnaeus)
Bean yellow mosaic virus
Beet mosaic virus
Beet yellow stunt virus
Cauliflower mosaic virus
Cucumber mosaic virus
Gooseberry vein banding virus
Lettuce mosaic virus
Lettuce necrotic yellows virus
Nasturtium mosaic virus
Peanut mottle virus
Potato aucuba mosaic virus
Red currant vein banding virus
Sowthistle yellow vein virus

Turnip mosaic virus

* *Hyperomyzus pallidus* Hille Ris Lambers
Gooseberry vein banding virus

Hysteroneura setariae (Thomas)
Cucumber mosaic virus
Guinea grass mosaic virus
Onion yellow dwarf virus
Papaya ringspot (type P & W) virus
Soybean mosaic virus
Sugarcane mosaic virus

* *Illinoia azaleae* (Mason)
Cucumber mosaic virus

* *Illinoia davidsoni* (Mason)
Thimbleberry ringspot virus

* *Illinoia maxima* (Mason)
Thimbleberry ringspot virus

Illinoia pepperi (MacGillivray)
Blueberry shoestring virus

* *Illinoia rubicola* (Oestlund)
Black raspberry necrosis virus

Kakimia purpurascens (Oestlund)
Onion yellow dwarf virus

* *Lipaphis erysimi* (Kaltenbach)
Bean common mosaic virus
Bean yellow mosaic virus
Beet mosaic virus
Beet yellows virus
Cauliflower mosaic virus
Celery mosaic virus
Cucumber mosaic virus
Nasturtium mosaic virus
Onion yellow dwarf virus
Poison hemlock ringspot virus
Potato virus Y
Sweet potato feathery mottle virus
Turnip mosaic virus
Turnip mosaic virus [Radish mosaic virus strain]
Turnip mosaic virus [Stock mosaic virus strain]
Zucchini yellow mosaic virus

Lipaphis fritzmuelleri Börner
Turnip mosaic virus

Macrosiphoniella artemisiae (Boyer de Fonscolombe)
Turnip mosaic virus

* *Macrosiphoniella millefolii* (de Geer)
Cucumber mosaic virus
Turnip mosaic virus

Macrosiphoniella oblonga (Mordvilko)
Beet mosaic virus

* *Macrosiphoniella sanborni* (Gillette)
Chrysanthemum virus B
Chrysanthemum virus B [Chrysanthemum vein mottle virus strain]
Potato virus Y
Turnip mosaic virus
Watermelon mosaic virus 2

* *Macrosiphoniella tanacetaria* (Kaltenbach)
Turnip mosaic virus

* *Macrosiphum albifrons* Essig
Bean yellow mosaic virus

* *Macrosiphum daphnidis* Börner
Cucumber mosaic virus
Turnip mosaic virus

* *Macrosiphum euphorbiae* (Thomas)
Ajuga virus
Alfalfa mosaic virus
Bean common mosaic virus
Bean leaf roll virus
Bean yellow mosaic virus
Bean yellow mosaic virus [Canna mosaic virus strain]
Beet mosaic virus
Beet western yellows virus
Beet yellow net virus
Beet yellow stunt virus
Black raspberry necrosis virus
Broad bean wilt virus
Cauliflower mosaic virus
Chilli mosaic virus
Chrysanthemum virus B
Clover (subterranean) mosaic virus
Clover yellow vein virus
Cocksfoot streak virus
Cowpea aphid-borne mosaic virus
Cucumber mosaic virus
Cucumber mosaic virus [Banana mosaic virus strain]
Dahlia mosaic virus
Dock (New Zealand) mosaic virus
Dock mosaic virus
Filaree red leaf virus

Freesia mosaic virus
Henbane mosaic virus
Hop mosaic virus
Hop split leaf blotch virus
Hyacinth mosaic virus
Iris (beardless) mosaic virus
Iris (bulbous) mosaic virus
Iris fulva mosaic virus
Iris mild mosaic virus
Iris severe mosaic virus
Lettuce mosaic virus
Narcissus yellow stripe virus
Nasturtium ringspot virus
Onion yellow dwarf virus
Ornithogalum mosaic virus
Papaya ringspot (type P & W) virus
Passionfruit woodiness virus
Pea enation mosaic virus
Pea pimple pod virus
Pea seed-borne mosaic virus
Potato leaf rolling mosaic virus
Potato leafroll virus
Potato leafroll virus [Tomato yellow top virus strain]
Potato spindle tuber "virus"
Potato veinal necrosis virus
Potato virus A
Potato virus M
Potato virus V
Potato virus Y
Rhubarb mosaic virus
Soybean mosaic virus
Subterranean clover red leaf virus
Subterranean clover stunt virus
Sweet potato internal cork virus
Tobacco etch virus
Tobacco vein mottling virus
Tomato aspermy virus
Tulip breaking virus
Turnip mosaic virus
Turnip mosaic virus [Anemone mosaic virus strain]
Watermelon mosaic virus 2
Zucchini yellow mosaic virus

Macrosiphum lilii (Monell)
Lily rosette virus
Ornithogalum mosaic virus
Tigridia mosaic virus

* *Macrosiphum rosae* (Linnaeus)
Bean yellow mosaic virus
Cauliflower mosaic virus
Celery mosaic virus

Cucumber mosaic virus
Narcissus yellow stripe virus
Onion yellow dwarf virus
Pea seed-borne mosaic virus
Strawberry mild yellow edge virus
Strawberry vein banding virus
Teasel mosaic virus
Turnip mosaic virus

* *Macrosiphum stellariae* Theobald
Beet yellows virus

Megoura viciae Buckton
Bean common mosaic virus
Bean leaf roll virus
Bean yellow mosaic virus
Cauliflower mosaic virus
Cucumber mosaic virus
Nasturtium mosaic virus
Pea enation mosaic virus
Turnip mosaic virus

Melanaphis sacchari (Zehntner)
Millet red leaf virus

Metopeurum fuscoviride Stroyan
Cucumber mosaic virus

* *Metopolophium dirhodum* (Walker)
Barley yellow dwarf virus
Beet western yellows virus
Corksfoot streak virus

Microlophium primulae (Theobald)
Alfalfa mosaic virus
Beet mosaic virus
Beet yellows virus
Potato virus Y
Turnip mosaic virus

Microsiphoniella artemisiae (Gillette)
Onion yellow dwarf virus

Monellia caryae (Monell)
Onion yellow dwarf virus

Monellia caryella (Fitch)
Onion yellow dwarf virus

* *Myzaphis rosarum* (Kaltenbach)
Strawberry mottle virus

* *Myzocallis punctatus* (Monell)
Onion yellow dwarf virus

* *Myzus ascalonicus* Doncaster
Beet mosaic virus
Beet western yellows virus
Beet yellows virus
Cauliflower mosaic virus
Cucumber mosaic virus
Dahlia mosaic virus
Dandelion yellow mosaic virus
Henbane mosaic virus
Onion yellow dwarf virus
Potato leafroll virus
Shallot latent virus
Strawberry mottle virus
Strawberry vein banding virus
Tobacco etch virus
Tomato dwarfing virus
Turnip mosaic virus

* *Myzus cerasi* (Fabricius)
Bean yellow mosaic virus
Celery mosaic virus
Narcissus yellow stripe virus
Onion yellow dwarf virus
Papaya ringspot (type P & W) virus
Watermelon mosaic virus 2

* *Myzus certus* (Walker)
Bean yellow mosaic virus
Beet yellows virus
Nasturtium mosaic virus
Potato virus Y
Tomato aspermy virus
Turnip mosaic virus

Myzus cymbalariae Stroyan
Beet yellows virus

* *Myzus ligustri* (Mosley)
Cucumber mosaic virus
Dahlia mosaic virus

* *Myzus ornatus* Laing
Alfalfa mosaic virus
Beet western yellows virus
Beet yellows virus
Cauliflower mosaic virus
Cucumber mosaic virus
Dahlia mosaic virus
Dandelion yellow mosaic virus
Malva yellows virus
Onion yellow dwarf virus

Pea enation mosaic virus
Potato leafroll virus
Potato virus Y
Primula mosaic virus
Soybean mosaic virus
Strawberry vein banding virus
Tomato dwarfing virus
Turnip mosaic virus
Turnip mosaic virus [Radish mosaic virus strain]

* *Myzus persicae* (Sulzer)
Ajuga virus
Alfalfa (Michigan) virus
Alfalfa mosaic virus
Alsike clover mosaic virus
Alstroemeria mosaic virus
Alstroemeria virus
Araujia mosaic virus
Arracacha virus Y
Artichoke latent virus
Azuki bean mosaic virus
Barley yellow dwarf virus
Bean common mosaic virus
Bean leaf roll virus
Bean leaf wilt virus
Bean yellow mosaic virus
Bean yellow mosaic virus [Canna mosaic virus strain]
Bean yellow vein banding virus
Beet mosaic virus
Beet western yellows virus
Beet yellow net virus
Beet yellow stunt virus
Beet yellows virus
Beet 41 yellows virus
Bidens mottle virus
Blackeye cowpea mosaic virus
Broad bean (Indian) mosaic virus
Broad bean wilt virus
Canavalia maritima mosaic virus
Carnation etched ring virus
Carnation latent virus
Carnation necrotic fleck virus
Carnation vein mottle virus
Carrot thin leaf virus
Cattleya mosaic virus
Cauliflower mosaic virus
Celery mosaic virus
Celery mosaic virus [Celery crinkle leaf mosaic virus strain]
Centrosema mosaic virus
Chenopodium staudenvirus
Chickpea distortion mosaic virus

Chilli mosaic virus
Chinese yam necrotic mosaic virus
Chrysanthemum good news mosaic virus
Chrysanthemum virus B
Citrus enation-woody gall virus
Citrus tristeza virus
Clover (subterranean) mosaic virus
Clover blotch virus
Clover mild mosaic virus
Clover yellow vein virus
Cocksfoot mild mosaic virus
Cocksfoot streak virus
Commelina mosaic virus
Cotton curliness (Azerbaijan) virus
Cowpea aphid-borne mosaic virus
Cowpea aphid-borne mosaic virus [Crotalaria mosaic virus strain]
Cowpea green vein banding virus
Crotalaria (Sann Hemp) mosaic virus
Crotalaria spectabilis yellow mosaic virus
Cucumber mosaic virus
Cucumber mosaic virus [Lily ringspot virus strain]
Dahlia mosaic virus
Dasheen mosaic virus
Datura (Colombian) virus
Datura distortion mosaic virus
Datura virus
Desmodium mosaic virus
Dioscorea alata ring mottle virus
Dioscorea green-banding mosaic virus
Dock (New Zealand) mosaic virus
Dock mosaic virus
Dolichos ringspot mottle virus
Elderberry carlavirus
Freesia mosaic virus
Garlic yellow streak virus
Gooseberry vein banding virus
Guar symptomless virus
Helenium virus S
Henbane mosaic virus
Hippeastrum mosaic virus
Hop mosaic virus
Hyacinth mosaic virus
Iris (beardless) mosaic virus
Iris (bulbous) mosaic virus
Iris fulva mosaic virus
Iris mild mosaic virus
Iris severe mosaic virus
Lamium mild mosaic virus
Leek yellow stripe virus
Lettuce mosaic virus
Lettuce speckles mottle virus

Lily symptomless virus
Lily symptomless virus [Alstroemeria virus strain]
Lycium virus
Maclura mosaic virus
Maize leaf fleck virus
Malva vein clearing virus
Malva yellows virus
Mirabilis mosaic virus
Mulberry mosaic virus
Muskmelon vein necrosis virus
Narcissus latent virus
Nasturtium mosaic virus
Nasturtium ringspot virus
Nerine latent virus
Onion mosaic virus
Onion yellow dwarf virus
Ornithogalum mosaic virus
Papaya ringspot (type P & W) virus
Parsnip mosaic virus
Passionfruit woodiness virus
Pea enation mosaic virus
Pea pimple pod virus
Pea seed-borne mosaic virus
Peanut green mosaic virus
Peanut mild mottle virus
Peanut mottle virus
Peanut stunt virus
Peanut stunt virus [Robinia mosaic virus strain]
Pepper mottle virus
Pepper veinal mottle virus
Peru tomato virus
Physalis floridana yellow net virus
Plum pox virus
Poison hemlock ringspot virus
Pokeweed mosaic virus
Potato aucuba mosaic virus
Potato leaf rolling mosaic virus
Potato leafroll virus
Potato leafroll virus [Tomato yellow top virus strain]
Potato spindle tuber "virus"
Potato veinal necrosis virus
Potato virus A
Potato virus M
Potato virus S
Potato virus V
Potato virus Y
Potato virus Y [Potato virus C strain]
Primula mottle virus
Rape savoy virus
Red clover vein mosaic virus
Red currant vein banding virus
Rhubarb mosaic virus

Sowbane mosaic virus
Soybean mild mosaic virus
Soybean mosaic virus
Soybean stunt virus
Spinach yellow dwarf virus
Strawberry mild yellow edge virus
Strawberry vein banding virus
Subterranean clover stunt virus
Sugarcane mosaic virus
Sweet potato feathery mottle virus
Sweet potato internal cork virus
Sweet potato vein mosaic virus
Sweet potato virus A
Tamarillo mosaic virus
Teasel mosaic virus
Tobacco etch virus
Tobacco etch virus [Datura etch virus strain]
Tobacco mottle virus
Tobacco necrotic dwarf virus
Tobacco ringspot virus
Tobacco ringspot virus [Begonia strain]
Tobacco vein distorting virus
Tobacco vein mottling virus
Tobacco wilt virus
Tobacco yellow vein assistor virus
Tobacco yellow vein virus
Tomato aspermy virus
Tomato yellow net virus
Tulip breaking virus
Turnip mosaic virus
Turnip mosaic virus [Anemone mosaic virus strain]
Turnip mosaic virus [Cabbage ring necrosis virus strain]
Turnip mosaic virus [Radish mosaic virus strain]
Turnip mosaic virus [Stock mosaic virus strain]
Ullucus mosaic virus
Vanilla mosaic virus
Watercress mosaic virus
Watermelon mosaic virus 2
Zucchini yellow mosaic virus

* *Nasonovia ribisnigri* (Mosley)
Cauliflower mosaic virus
Cucumber mosaic virus
Gooseberry vein banding virus
Red currant vein banding virus

* *Nearctaphis bakeri* (Cowen)
Alfalfa mosaic virus
Bean yellow mosaic virus

Neotoxoptera formosana (Takahashi)
Papaya ringspot (type P & W) virus

Neotoxoptera violae (Pergande)
Alfalfa mosaic virus

* *Ovatus crataegarius* (Walker)
Pea seed-borne mosaic virus

Pentalonia nigronervosa Coquerel
Banana bunchy top virus
Cardamom mosaic virus
Cucumber mosaic virus [Banana mosaic virus strain]

* *Periphyllus negundinis* (Thomas)
Onion yellow dwarf virus

Phorodon cannabis Passerini
Cannabis streak virus

* *Phorodon humuli* (Schrank)
American hop latent virus
Cucumber mosaic virus
Hop latent virus
Hop mosaic virus
Hop split leaf blotch virus
Hopline pattern virus
Nasturtium mosaic virus
Papaya ringspot (type P & W) virus
Plum pox virus
Potato leafroll virus
Potato virus Y
Tomato aspermy virus
Tomato dwarfing virus
Turnip mosaic virus
Watermelon mosaic virus 2

* *Prociphilus corrugatans* (Sirrine)
Onion yellow dwarf virus

* *Pterocomma salicis* (Linnaeus)
Onion yellow dwarf virus

Rhodobium porosum (Sanderson)
Onion yellow dwarf virus
Strawberry crinkle virus
Strawberry mottle virus

* *Rhopalomyzus lonicerae* (Siebold)
Turnip mosaic virus

* *Rhopalosiphoninus latysiphon* (Davidson)
Beet yellows virus
Cucumber mosaic virus

Potato leafroll virus
Potato virus V

* *Rhopalosiphoninus staphyleae* (Koch)
Beet yellows virus

Rhopalosiphoninus staphyleae ssp. tulipaellus (Theobald)
Beet mosaic virus
Beet yellows virus
Cauliflower mosaic virus
Cucumber mosaic virus
Potato leafroll virus
Potato virus Y
Tomato aspermy virus
Turnip mosaic virus

* *Rhopalosiphum insertum* (Walker)
Barley yellow dwarf virus
Potato virus Y

* *Rhopalosiphum maidis* (Fitch)
Barley yellow dwarf virus
Broad bean (Indian) mosaic virus
Cucumber mosaic virus
Guinea grass mosaic virus
Maize leaf fleck virus
Millet red leaf virus
Mulberry mosaic virus
Onion yellow dwarf virus
Papaya ringspot (type P & W) virus
Sugarcane mosaic virus
Sugarcane mosaic virus [Abaca mosaic virus strain]
Swordbean distortion mosaic virus
Tobacco vein mottling virus
Wheat yellow leaf virus
Yam mosaic virus

* *Rhopalosiphum nymphaeae* (Linnaeus)
Cauliflower mosaic virus
Cucumber mosaic virus
Lotus streak virus
Onion yellow dwarf virus
Sugarcane mosaic virus [Abaca mosaic virus strain]
Turnip mosaic virus

* *Rhopalosiphum padi* (Linnaeus)
Barley yellow dwarf virus
Cucumber mosaic virus
Filaree red leaf virus
Maize leaf fleck virus
Nasturtium mosaic virus
Onion yellow dwarf virus

Pea seed-borne mosaic virus
Peanut mottle virus
Rice giallume virus
Soybean stunt virus
Sugarcane mosaic virus
Sugarcane mosaic virus [Abaca mosaic virus strain]
Tobacco vein mottling virus
Watermelon mosaic virus 2
Wheat yellow leaf virus

Rhopalosiphum rufiabdominalis (Sasaki)
Barley yellow dwarf virus

* *Schizaphis graminum* (Rondani)
Barley yellow dwarf virus
Millet red leaf virus
Sugarcane mosaic virus

Schizaphis hypersiphonata Basu
Sugarcane mosaic virus [Abaca mosaic virus strain]

Semiaphis dauci (Fabricius)
Celery mosaic virus
Watermelon mosaic virus 2

Semiaphis heraclei (Takahashi)
Carrot mottle virus

* *Sipha elegans* del Guercio
Barley yellow dwarf virus

* *Sipha flava* (Forbes)
Sugarcane mosaic virus

Sipha maydis Passerini
Cucumber mosaic virus

* *Sitobion avenae* (Fabricius)
Barley yellow dwarf virus
Bean yellow mosaic virus
Beet western yellows virus
Corksfoot streak virus

* *Sitobion fragariae* (Walker)
Barley yellow dwarf virus

Sitobion miscanthi (Takahashi)
Barley yellow dwarf virus
Millet red leaf virus

* *Tetraneura ulmi* (Linnaeus)
Maize dwarf virus

* *Therioaphis trifolii* (Monell)
  Alfalfa mosaic virus
  Onion yellow dwarf virus

Therioaphis trifolii forma maculata (Buckton)
  Red clover vein mosaic virus

Thripsaphis ballii (Gillette)
  Onion yellow dwarf virus

Toxoptera aurantii (Boyer de Fonscolombe)
  Citrus infectious variegation virus
  Citrus tristeza virus
  Coffee blister spot virus

Toxoptera citricidus (Kirkaldy)
  Bean yellow mosaic virus
  Citrus enation-woody gall virus
  Citrus tristeza virus
  Pepper veinal mottle virus
  Sugarcane mosaic virus [Abaca mosaic virus strain]
  Watermelon mosaic virus 2
  Yam mosaic virus

Toxoptera sp.
  Cardamom mosaic virus

Tuberocephalus momonis (Matsumura)
  Millet red leaf virus

Unknown sp.
  Asystasia gangetica mottle virus
  Nerine virus
  Peanut chlorotic streak virus

* *Uroleucon ambrosiae* (Thomas)
  Bean common mosaic virus
  Onion yellow dwarf virus
  Sugarcane mosaic virus

Uroleucon cichorii (Koch)
  Beet mosaic virus
  Cucumber mosaic virus

* *Uroleucon erigeronensis* (Thomas)
  Cucumber mosaic virus

Uroleucon escalantii (Knowlton)
  Pea seed-borne mosaic virus

Uroleucon gravicorne (Patch)
  Onion yellow dwarf virus

Uroleucon impatiensicolens (Patch)
Onion yellow dwarf virus

Uroleucon jaceae (Linnaeus)
Cucumber mosaic virus

Uroleucon jaceae ssp. henrichi (Börner)
Cucumber mosaic virus

Uroleucon obscurum (Koch)
Cucumber mosaic virus

Uroleucon rapunculoidis (Börner)
Turnip mosaic virus

* *Uroleucon rudbeckiae* (Fitch)
Onion yellow dwarf virus

* *Uroleucon sonchi* (Linnaeus)
Cauliflower mosaic virus
Datura distortion mosaic virus
Swordbean distortion mosaic virus

Uroleucon sp.
Zucchini yellow mosaic virus

Uroleucon tanaceti (Linnaeus)
Cucumber mosaic virus
Dahlia mosaic virus

* *Uroleucon taraxaci* (Kaltenbach)
Onion yellow dwarf virus

* Aphid species recorded in B.C.

Alfalfa (Michigan) virus
Medicago sativa

Alfalfa mosaic virus
Apium graveolens
Apium graveolens var. rapaceum
Capsicum annuum
Caryopteris incana
Cicer arietinum
Lactuca sativa
Lupinus sp.
Lycopersicon lycopersicum
Malva parviflora
Medicago sativa
Nicotiana tabacum
Phaseolus vulgaris
Philadelphus sp.
Pisum sativum
Solanum tuberosum
Trifolium incarnatum
Trifolium repens
Viburnum opulus
Vigna radiata
Vigna unguiculata

Alsike clover mosaic virus
Medicago arabica

Alstroemeria mosaic virus
Alstroemeria caryophyllaea
Iris hollandica 'Prof. Blaauw'

Alstroemeria virus
Alstroemeria ligtu

American hop latent virus
Humulus lupulus

Araujia mosaic virus
Araujia angustifolia
Morrenia odorata

Arracacha virus Y
Arracacia xanthorrhiza

Artichoke latent virus
Cynara scolymus
Senecio vulgaris
Zinnia elegans

Artichoke virus
Cynara scolymus

Asystasia gangetica mottle virus
Asystasia gangetica

Azuki bean mosaic virus
Vigna angularis

Banana bunchy top virus
Musa accuminata

Barley yellow dwarf virus
Avena sativa
Hordeum vulgare
Lolium multiflorum
Lolium perenne
Oriza sativa
Secale cereale
Triticum aestivum
Zea mays

Bean big vein virus
Pisum sativum
Trifolium incarnatum

Bean common mosaic virus
Phaseolus vulgaris

Bean leaf roll virus
Medicago sativa
Pisum sativum
Trifolium repens
Vicia faba

Bean leaf roll virus [Chickpea stunt virus strain]
Cicer arietinum
Pisum sativum

Bean leaf wilt virus
Lathyrus pusillus

Bean yellow mosaic virus
Canna sp.
Crotalaria spectabilis
Eustoma grandiflorum
Freesia sp.
Gladiolus sp.
Glycine max
Lupinus luteus
Medicago sativa

Papaver somniferum
Phaseolus vulgaris
Pisum sativum
Robinia pseudoacacia
Trifolium hybridum
Trifolium incarnatum
Trifolium pratense
Trifolium repens
Trifolium subterraneum
Trigonella foenum-graecum
Vicia faba
Vicia sativa

Bean yellow mosaic virus [Canna mosaic virus strain]
Canna edulis
Canna x generalis
Canna indica

Bean yellow vein banding virus
Vicia faba

Beet mosaic virus
Beta maritima
Melilotus indica
Trifolium incarnatum

Beet western yellows virus
Beta vulgaris
Brassica napobrassica group
Brassica napus
Brassica nigra
Brassica oleracea botrytis group
Brassica oleracea capitata group
Brassica rapa
Capsicum annuum
Cicer arietinum
Citrullus lanatus
Crambe sp.
Cucumis sativus
Cucurbita pepo
Glycine max
Helianthus annuus
Lactuca sativa
Lycopersicon lycopersicum
Phlox drummondii
Pisum sativum
Raphanus sativus
Trifolium subterraneum
Vicia faba

Beet yellow net virus
Beta vulgaris

Beet yellow stunt virus
Beta vulgaris
Lactuca sativa
Sonchus oleraceus

Beet yellows virus
Beta vulgaris
Spinacia oleracea

Beet 41 yellows virus
Beta vulgaris 'Family 41'

Bidens mottle virus
Bidens sp.
Cichorium endivia
Erigeron sp.
Fittonia verschaffeltii var. argyroneura
Lactuca sativa
Lepidium virginicum
Lupinus angustifolius
Senecio sp.

Black raspberry necrosis virus
Rubus occidentalis
Rubus spp.

Blackberry dwarf virus
Rubus fruticosus
Rubus x loganobaccus

Blackeye cowpea mosaic virus
Crotalaria spectabilis
Vigna unguiculata

Blueberry shoestring virus
Vaccinium corymbosum

Broad bean (India) mosaic virus
Vicia faba

Broad bean fireblight virus
Vicia faba

Broad bean mild mosaic virus
Vicia faba

Broad bean severe chlorosis virus
Vicia faba

Broad bean V virus
Vicia faba

Broad bean wilt virus
Petroselinum crispum
Petunia x hybrida
Pisum sativum
Plantago lanceolata
Spinacia oleracea
Tropaeolum majus
Vicia faba

Broccoli necrotic yellows virus
Brassica oleracea botrytis group
Brassica oleracea gemmifera group

Canavalia maritima mosaic virus
Canavalia maritima

Cardamom mosaic virus
Elettaria cardamomum

Carnation etched ring virus
Dianthus caryophyllus

Carnation latent virus
Dianthus caryophyllus

Carnation necrotic fleck virus
Dianthus caryophyllus

Carnation vein mottle virus
Dianthus barbatus
Dianthus caryophyllus

Carrot mottle virus
Anethum graveolens
Anthriscus sylvestris
Daucus carota

Carrot thin leaf virus
Daucus carota

Cattleya mosaic virus
Cattleya mossiae
Cattleya trianaei

Cauliflower mosaic virus
Arabidopsis thaliana
Brassica oleracea
Brassica rapa
Brassica spp.
Raphanus spp.

Celery mosaic virus
Anethum graveolens

Apium graveolens var. dulce
Conium maculatum
Coriandrum sativum
Daucus carota
Pastinaca sativa
Petroselinum crispum

Celery mosaic virus [Celery crinkle leaf mosaic virus strain]
Apium graveolens var. dulce

Celery yellow spot virus
Apium graveolens var. dulce
Conium maculatum
Pastinaca sativa

Centrosema mosaic virus
Calopogonium mucunoides
Centrosema pubescens
Crotalaria anagyroides
Crotalaria goreensis
Crotalaria mucronata
Crotalaria retusa
Desmodium distortum

Chickpea distortion mosaic virus
Cicer arietinum

Chilli mosaic virus
Capsicum frutescens

Chinese yam necrotic mosaic virus
Dioscorea batatas

Chrysanthemum good news mosaic virus
Chrysanthemum 'Good News'

Chrysanthemum virus B
Chrysanthemum x morifolium
Gynura aurantiaca

Chrysanthemum virus B [Chrysanthemum vein mottle virus strain]
Chrysanthemum x morifolium

Cineraria mosaic virus
Senecio cruentus

Citrus infectious variegation virus
Citrus limon

Citrus tristeza virus
Citrus aurantiifolia
Citrus aurantium
Citrus x paradisi
Citrus reticulata

Citrus vein enation-woody gall virus
Citrus aurantiifolia
Citrus aurantium
Citrus x paradisi
Citrus reticulata
Citrus sinensis
Eucalyptus sp.
Ficus sp.
Morus sp.
Prunus domestica
Rosa sp.
Ulmus sp.
Viburnum sp.

Clover blotch virus
Trifolium repens

Clover mild mosaic virus
Trifolium hybridum
Trifolium pratense

Clover yellow vein virus
Coriandrum sativum
Daucus carota
Glycine max
Limonium sinuatum
Lupinus luteus
Lupinus sp.
Pisum sativum
Trifolium hybridum
Trifolium incarnatum
Trifolium pratense
Trifolium repens
Trifolium subterraneum
Trifolium vesiculosum

Clover yellows virus
Trifolium incarnatum
Trifolium repens

Cocksfoot mild mosaic virus
Dactylis glomerata

Cocksfoot streak virus
Dactylis glomerata

Commelina mosaic virus
Commelina diffusa

Cotton anthocyanosis virus
Gossypium barbadense

Gossypium hirsutum
Sida rhombifolia

Cowpea aphid-borne mosaic virus
Vigna unguiculata

Cowpea aphid-borne mosaic virus [Crotalaria mosaic virus strain]
Crotalaria incana

Cowpea green vein banding virus
Vigna unguiculata

Cowpea stunt virus
Vigna unguiculata
Vigna unguiculata ssp. sesquipedalis

Crotalaria (Sann Hemp) mosaic virus
Vigna cylindrica

Crotalaria spectabilis yellow mosaic virus
Crotalaria spectabilis

Cucumber mosaic virus
Cucurbitaceae
Rosaceae
Solanaceae

Cucumber mosaic virus [Lily ringspot virus strain]
Lilium regale
Lilium tigrinum

Dahlia mosaic virus
Dahlia pinnata

Dandelion yellow mosaic virus
Lactuca sativa
Taraxacum officinale

Dasheen mosaic virus
Aglaonema spp.
Caladium x hortulanum
Colocasia spp.
Dieffenbachia spp.
Xanthosoma spp.
Zantedeschia spp.

Datura (Colombian) virus
Brugmansia sanguinea
Datura x candida

Datura distortion mosaic virus
Datura fastuosa

Datura metel

Desmodium mosaic virus
Desmodium incanum

Dioscorea alata ring mottle virus
Dioscorea alata

Dioscorea green-banding mosaic virus
Dioscorea rotundata

Dioscorea trifida virus
Dioscorea trifida

Dock (New Zealand) mosaic virus
Rumex crispus
Rumex obtusifolius
Rumex pulcher

Dock mosaic virus
Rumex crispus
Rumex lanceolatus
Rumex obtusifolius
Rumex pulcher

Dolichos ringspot mottle virus
Vicia faba

Elderberry virus
Sambucus nigra
Sambucus racemosa
Sambucus racemosa 'Plumosa'

Filaree red leaf virus
Erodium moschatum

Freesia mosaic virus
Freesia refracta

Gambir mosaic virus
Uncaria gambir

Garlic yellow streak virus
Allium sativum

Gooseberry vein banding virus
Ribes spp.
Ribes uva-crispa

Groundnut eyespot virus
Arachis hypogaea

Groundnut rosette assistor virus
Arachis hypogaea

Groundnut rosette virus
Arachis hypogaea

Guar symptomless virus
Cyamopsis tetragonolobus

Guinea grass mosaic virus
Panicum maximum
Pennisetum americanum
Zea mays

Helenium virus S
Helenium spp.
Impatiens holstii

Henbane mosaic virus
Datura spp.
Hyoscyamus niger
Physalis alkekengi

Heracleum latent virus
Heracleum sphondylium
Umbelliferae

Hippeastrum mosaic virus
Eucharis grandiflora
Hippeastrum x hybridum
Hippeastrum puniceum

Holodiscus witches' broom virus
Holodiscus discolor

Honeysuckle latent virus
Lonicera americana
Lonicera x brownii 'Dropmore Scarlet'
Lonicera x brownii 'Fucksioides'
Lonicera x brownii 'Punicea'
Lonicera caprifolium
Lonicera heckrottii 'Goldflame'
Lonicera henryi
Lonicera japonica 'Halliana'
Lonicera japonica 'Reticulata'
Lonicera periclymenum 'Belgica Elect'
Lonicera periclymenum var. belgica
Lonicera periclymenum var. serotina
Lonicera x tellmanniana

Hop latent virus
Humulus lupulus

Hop line pattern virus
Humulus lupulus var. neomexicanus

Hop mosaic virus
Humulus lupulus
Urtica urens

Hyacinth mosaic virus
Hyacinthus orientalis

Indonesian soybean dwarf virus
Glycine max

Iris (beardless) mosaic virus
Belamcanda chinensis

Iris (bulbous) mosaic virus
Iris filifolia
Iris tingitana
Iris unguicularis
Iris xiphioides
Iris xiphium

Iris fulva mosaic virus
Iris fulva

Iris mild mosaic virus
Iris danfordiae
Iris reticulata
Iris sp.
Iris tingitana x Iris xiphium
Iris xiphioides
Iris xiphium

Iris severe mosaic virus
Belamcanda chinensis
Crocus vernus
Iris sp.

Leek yellow strip virus
Allium ampeloprasum porosum group
Allium ascalonicum
Allium cepa

Legume yellows virus
Cicer arietinum
Medicago polymorpha
Medicago sativa
Vicia faba
Vicia sativa

Lettuce mosaic virus
Lactuca sativa
Senecio vulgaris

Sonchus spp.

Lettuce necrotic yellow virus
Embergeria megalocarpa
Lactuca sativa
Reichardia picroides
Sonchus hydrophilus
Sonchus oleraceus

Lily rosette virus
Lilium longiflorum var. formosum
Lilium longiflorum var. giganteum
Lilium longiflorum var. harrisii

Lily symptomless virus
Lilium formosanum
Lilium longiflorum
Tulipa gesneriana

Lily symptomless virus [Alstroemeria virus strain]
Alstroemeria caryophyllaea

Lotus streak virus
Nelumbo nucifera

Lucerne enation virus
Medicago sativa
Vicia faba

Maclura mosaic virus
Maclura pomifera

Maize leaf fleck virus
Zea mays 'Golden Bantam'

Malva vein clearing virus
Lavatera assurgentiflora
Malva parviflora

Malva yellows virus
Malva parviflora

Milk vetch dwarf virus
Astragalus sinicus
Glycine max
Phaseolus vulgaris
Pisum sativum
Vicia faba

Mirabilis mosaic virus
Mirabilis nyctaginea

Mulberry mosaic virus
Morus alba

Morus australis

Muskmelon vein necrosis virus
Cucumis melo
Pisum sativum

Narcissus latent virus
Gladiolus 'Scarlet Royal'
Iris xiphium 'Praecox' x Iris tingitana
Narcissus pseudonarcissus
Nerine sarniensis 'Rotherside'

Narcissus yellow stripe virus
Narcissus jonquilla
Narcissus pseudonarcissus
Nerine bowdenii

Nasturtium mosaic virus
Tropaeolum majus

Nasturtium ringspot virus
Tropaeolum majus

Nerine latent virus
Hippeastrum x hybridum
Nerine bowdenii

Nerine virus
Nerine bowdenii
Nerine sarniensis

Onion yellow dwarf virus
Allium ascalonicum
Allium cepa
Allium spp.

Ornithogalum mosaic virus
Eucomis spp.
Ornithogalum thyrsoides

Papaya mosaic virus
Carica papaya

Papaya ringspot (type P) virus
Carica papaya

Papaya ringspot (type W) virus
Citrullus lanatus
Cucumis melo
Cucurbita pepo
Melothria pendula
Momordica charantia

Parsnip mosaic virus
Pastinaca sativa

Parsnip yellow fleck virus
Pastinaca sativa

Parsnip yellow fleck virus [Anthriscus yellows virus strain]
Anthriscus cerefolium
Anthriscus sylvestris

Passiflora ringspot virus
Adenia lobata
Passiflora edulis
Passiflora foetida

Passionfruit woodiness virus
Arachis hypogaea
Centrosema pubescens
Glycine max
Macroptilium atropurpureum
Passiflora aurantia
Passiflora edulis
Passiflora foetida
Passiflora suberosa
Passiflora subpeltata
Phaseolus vulgaris

Pea enation mosaic virus
Lathyrus odoratus
Medicago arabica
Pisum sativum
Trifolium incarnatum
Vicia faba
Vicia sativa

Pea pimple pod virus
Pisum sativum
Pisum sativum 'Telephone'

Pea seed-borne mosaic virus
Pisum sativum

Pea streak virus
Pisum sativum

Pea streak virus [Alfalfa latent virus strain]
Medicago sativa

Peanut chlorotic streak virus
Arachis hypogaea

Peanut green mosaic virus
Arachis hypogaea

Peanut mild mottle virus
Arachis hypogaea

Peanut mottle virus
Arachis hypogaea
Cassia bicapsularis
Cassia leptocarpa
Cassia occidentalis
Cassia tora
Glycine max
Phaseolus vulgaris
Pisum sativum

Peanut stripe virus
Arachis hypogaea
Lupinus albus

Peanut stunt virus
Arachis hypogaea
Phaseolus spp.
Trifolium sp.
Vicia sp.

Peanut stunt virus [Robinia mosaic virus strain]
Robinia pseudoacacia

Pepper mottle virus
Capsicum annuum
Datura meteloides
Solanum sp.

Pepper veinal mottle virus
Capsicum annuum
Capsicum frutescens
Datura metel
Datura stramonium
Lycopersicon lycopersicum
Nicotiana tabacum
Petunia x hybrida
Solanum integrifolium
Solanum melongena
Solanum nigrum

Peru tomato virus
Capsicum annuum
Capsicum baccatum var. pendulum
Capsicum chinense
Lycopersicon lycopersicum
Solanum nigrum

Physalis floridana yellow net virus
Physalis pubescens

Plum pox virus
Prunus armeniaca
Prunus domestica
Prunus persica

Poison hemlock ringspot virus
Conium maculatum

Potato aucuba mosaic virus
Solanum tuberosum

Potato leafroll virus
Lycopersicon lycopersicum
Solanum tuberosum ssp. andigena
Solanum tuberosum ssp. tuberosum

Potato leafroll virus [Tomato yellow top virus strain]
Lycopersicon lycopersicum
Solanum nigrum

Potato virus A
Solanum tuberosum

Potato virus M
Solanum tuberosum

Potato virus S
Solanum tuberosum

Potato virus V
Solanum tuberosum

Potato virus Y
Capsicum spp.
Lycopersicon lycopersicum
Nicotiana spp.
Solanum tuberosum

Potato virus Y [Potato virus C strain]
Solanum tuberosum

Primula mosaic virus
Primula obconica

Primula mottle virus
Primula malacoides

Raspberry leaf curl virus
Fragaria spp.
Rubus spp.

Raspberry leaf mottle virus
Rubus idaeus

Raspberry leaf spot virus
Rubus idaeus

Raspberry vein chlorosis virus
Rubus idaeus

Red clover vein mosaic virus
Trifolium pratense

Red currant vein banding virus
Ribes sativum

Rubus yellow net virus
Rubus idaeus
Rubus occidentalis

Shallot latent virus
Allium ampeloprasum porosum group
Allium ascalonicum
Allium cepa
Allium sativum

Sonchus yellow net virus
Bidens pilosa
Senecio glabellus
Sonchus oleraceus

Sowbane mosaic virus
Atriplex suberecta
Beta vulgaris
Chenopodium album
Chenopodium amaranticolor
Chenopodium quinoa
Chenopodium triganon
Prunus domestica
Vitis sp.

Sowthistle yellow vein virus
Lactuca sativa
Sonchus oleraceus

Soybean dwarf virus
Glycine max
Phaseolus vulgaris
Pisum sativum
Trifolium pratense

Soybean mild mosaic virus
Glycine max

Soybean mosaic virus
Glycine max

Soybean stunt virus
Glycine max

Spinach yellow dwarf virus
Spinacia oleracea

Strawberry crinkle virus
Fragaria x ananassa
Fragaria chiloensis
Fragaria vesca
Fragaria virginiana

Strawberry latent C virus
Fragaria vesca

Strawberry mild yellow edge virus
Fragaria x ananassa
Fragaria chiloensis
Fragaria vesca
Fragaria virginiana

Strawberry mottle virus
Fragaria chiloensis
Fragaria vesca
Fragaria vesca ssp. californica

Strawberry stunt virus
Fragaria chiloensis
Fragaria vesca

Strawberry vein banding virus
Fragaria x ananassa
Fragaria chiloensis
Fragaria vesca
Fragaria virginiana

Subterranean clover red leaf virus
Erodium moschatum
Glycine max
Lens culinaris
Lupinus sp.
Pisum sativum
Trifolium repens
Trifolium subterraneum
Vicia faba

Subterranean clover stunt virus
Medicago arabica
Medicago hispida
Medicago lupulina
Medicago minima

Phaseolus vulgaris
Pisum sativum
Trifolium cernuum
Trifolium glomeratum
Trifolium pratense
Trifolium procumbens
Trifolium repens
Trifolium subterraneum
Vicia faba
Wisteria sinensis

Sugarcane mosaic virus
Eleusine spp.
Panicum spp.
Saccharum spp.
Setaria spp.
Sorghum bicolor
Sorghum halepense
Zea mays

Sugarcane mosaic virus [Abaca mosaic virus strain]
Musa textilis

Sweet potato feathery mottle virus
Ipomoea batatas 'Jersey'
Ipomoea spp.

Sweet potato internal cork virus
Ipomoea batatas

Sweet potato vein mosaic virus
Ipomoea batatas

Sweet potato virus A
Ipomoea batatas

Swordbean distortion mosaic virus
Canavalia ensiformis
Canavalia ensiformis x Canavalia virosa
Canavalia virosa

Tamarillo mosaic virus
Cyphomandra betacea
Solanum nigrum

Teasel mosaic virus
Dipsacus fullonum
Scabiosa atropurpurea

Telfairia mosaic virus
Telfairia occidentalis

Thimbleberry ringspot virus
Rubus parviflorus

Tigridia mosaic virus
Tigridia pavonia
Tritonia crocata

Tobacco etch virus
Cassia obtusifolia
Chenopodium album
Cirsium vulgare
Datura stramonium
Linaria canadensis
Physalis spp.
Solanum sp.

Tobacco mottle virus
Datura stramonium
Lycopersicon lycopersicum
Nicotiana glutinosa
Nicotiana tabacum

Tobacco necrotic dwarf virus
Capsella bursa-pastoris
Nicotiana tabacum
Spinacia oleracea

Tobacco ringspot virus
Anemone coronaria
Cucumis sativus
Eucharis candida
Gladiolus sp.
Glycine max
Hydrangea sp.
Iris sp.
Lilium sp.
Lycopersicon lycopersicum
Nicotiana tabacum
Pelargonium sp.
Vaccinium sp.

Tobacco vein distorting virus
Datura stramonium
Lycopersicon lycopersicum
Nicotiana glutinosa
Nicotiana sylvestris
Nicotiana tabacum

Tobacco vein mottling virus
Nicotiana tabacum
Rumex sp.
Solanum carolinense

Tobacco wilt virus
Solanum jasminoides

Tobacco yellow vein assistor virus
Nicotiana rustica

Tobacco yellow vein virus
Nicotiana rustica

Tomato aspermy virus
Canna sp.
Chrysanthemum x morifolium
Lilium sp.
Lycopersicon lycopersicum

Tomato yellow net virus
Lycopersicon lycopersicum
Lycopersicon pimpinellifolium

Tulip breaking virus
Lilium sp.
Tulipa spp.

Turnip mosaic virus
Alliaria petiolata
Brassica nigra
Capsella bursa-pastoris
Hesperis matronalis
Stellaria media
Trifolium hybridum

Turnip mosaic virus [Cabbage ring necrosis virus strain]
Brassica oleracea capitata group

Turnip mosaic virus [Radish mosaic virus strain]
Raphanus sativus

Turnip mosaic virus [Stock mosaic virus strain]
Matthiola incana 'Annua'

Ullucus mosaic virus
Ullucus tuberosus

Vanilla mosaic virus
Vanilla pompona
Vanilla tahitensis

Watermelon mosaic virus 2
Citrullus lanatus
Cucumis melo
Cucumis sativus
Cucurbita pepo

Wheat yellow leaf virus
Avena sativa

Hordeum vulgare
Lolium multiflorum
Secale cereale
Triticum aestivum

Yam mosaic virus
Dioscorea alata
Dioscorea x cayenensis
Dioscorea dumetorum
Dioscorea esculenta
Dioscorea praehensilis
Dioscorea preussii
Dioscorea rotundata

Zucchini yellow mosaic virus
Citrullus lanatus
Cucumis melo
Cucumis sativus
Cucurbita pepo
Melothria pendula

HOST-VIRUS CATALOGUE

Adenia lobata
Passiflora ringspot virus

Aglaonema spp.
Dasheen mosaic virus

Alliaria petiolata
Turnip mosaic virus

Allium ampeloprasum porosum group
Leek yellow strip virus
Shallot latent virus

Allium ascalonicum
Leek yellow strip virus
Onion yellow dwarf virus
Shallot latent virus

Allium cepa
Leek yellow strip virus
Onion yellow dwarf virus
Shallot latent virus

Allium sativum
Garlic yellow streak virus
Shallot latent virus

Allium spp.
Onion yellow dwarf virus

Alstroemeria caryophyllaea
Alstroemeria mosaic virus
Lily symptomless virus [Alstroemeria virus strain]

Alstroemeria ligtu
Alstroemeria virus

Anemone coronaria
Tobacco ringspot virus

Anethum graveolens
Carrot mottle virus
Celery mosaic virus

Anthriscus cerefolium
Parsnip yellow fleck virus [Anthriscus yellows virus strain]

Anthriscus sylvestris
Carrot mottle virus

Parsnip yellow fleck virus [Anthriscus yellows virus strain]

Apium graveolens
Alfalfa mosaic virus

Apium graveolens var. dulce
Celery mosaic virus
Celery mosaic virus [Celery crinkle leaf mosaic virus strain]
Celery yellow spot virus

Apium graveolens var. rapaceum
Alfalfa mosaic virus

Arabidopsis thaliana
Cauliflower mosaic virus

Arachis hypogaea
Groundnut eyespot virus
Groundnut rosette assistor virus
Groundnut rosette virus
Passionfruit woodiness virus
Peanut chlorotic streak virus
Peanut green mosaic virus
Peanut mild mottle virus
Peanut mottle virus
Peanut stripe virus
Peanut stunt virus

Araujia angustifolia
Araujia mosaic virus

Arracacia xanthorrhiza
Arracacha virus Y

Astragalus sinicus
Milk vetch dwarf virus

Asystasia gangetica
Asystasia gangetica mottle virus

Atriplex suberecta
Sowbane mosaic virus

Avena sativa
Barley yellow dwarf virus
Wheat yellow leaf virus

Belamcanda chinensis
Iris (beardless) mosaic virus
Iris severe mosaic virus

Beta maritima
Beet mosaic virus

Beta vulgaris
Beet western yellows virus
Beet yellow net virus
Beet yellow stunt virus
Beet yellows virus
Sowbane mosaic virus

Beta vulgaris 'Family 41'
Beet 41 yellows virus

Bidens pilosa
Sonchus yellow net virus

Bidens sp.
Bidens mottle virus

Brassica napobrassica group
Beet western yellows virus

Brassica napus
Beet western yellows virus

Brassica nigra
Beet western yellows virus
Turnip mosaic virus

Brassica oleracea
Cauliflower mosaic virus

Brassica oleracea botrytis group
Beet western yellows virus
Broccoli necrotic yellows virus

Brassica oleracea capitata group
Beet western yellows virus
Turnip mosaic virus [Cabbage ring necrosis virus strain]

Brassica oleracea gemmifera group
Broccoli necrotic yellows virus

Brassica rapa
Beet western yellows virus
Cauliflower mosaic virus

Brassica spp.
Cauliflower mosaic virus

Brugmansia sanguinea
Datura (Colombian) virus

Caladium x hortulanum
Dasheen mosaic virus

Calopogonium mucunoides
Centrosema mosaic virus

Canavalia ensiformis
Swordbean distortion mosaic virus

Canavalia ensiformis x Canavalia virosa
Swordbean distortion mosaic virus

Canavalia maritima
Canavalia maritima mosaic virus

Canavalia virosa
Swordbean distortion mosaic virus

Canna edulis
Bean yellow mosaic virus [Canna mosaic virus strain]

Canna x generalis
Bean yellow mosaic virus [Canna mosaic virus strain]

Canna indica
Bean yellow mosaic virus [Canna mosaic virus strain]

Canna sp.
Bean yellow mosaic virus
Tomato aspermy virus

Capsella bursa-pastoris
Tobacco necrotic dwarf virus
Turnip mosaic virus

Capsicum annuum
Alfalfa mosaic virus
Beet western yellows virus
Pepper mottle virus
Pepper veinal mottle virus
Peru tomato virus

Capsicum baccatum var. pendulum
Peru tomato virus

Capsicum chinense
Peru tomato virus

Capsicum frutescens
Chilli mosaic virus
Pepper veinal mottle virus

Capsicum spp.
Potato virus Y

Carica papaya
Papaya mosaic virus
Papaya ringspot (type P) virus

Caryopteris incana
Alfalfa mosaic virus

Cassia bicapsularis
Peanut mottle virus

Cassia leptocarpa
Peanut mottle virus

Cassia obtusifolia
Tobacco etch virus

Cassia occidentalis
Peanut mottle virus

Cassia tora
Peanut mottle virus

Cattleya mossiae
Cattleya mosaic virus

Cattleya trianaei
Cattleya mosaic virus

Centrosema pubescens
Centrosema mosaic virus
Passionfruit woodiness virus

Chenopodium album
Sowbane mosaic virus
Tobacco etch virus

Chenopodium amaranticolor
Sowbane mosaic virus

Chenopodium quinoa
Sowbane mosaic virus

Chenopodium triganon
Sowbane mosaic virus

Chrysanthemum 'Good News'
Chrysanthemum good news mosaic virus

Chrysanthemum x morifolium
Chrysanthemum virus B

Chrysanthemum virus B [Chrysanthemum vein mottle virus strain]
Tomato aspermy virus

Cicer arietinum
Alfalfa mosaic virus
Bean leaf roll virus [Chickpea stunt virus strain]
Beet western yellows virus
Chickpea distortion mosaic virus
Legume yellows virus

Cichorium endivia
Bidens mottle virus

Cirsium vulgare
Tobacco etch virus

Citrullus lanatus
Beet western yellows virus
Papaya ringspot (type W) virus
Watermelon mosaic virus 2
Zucchini yellow mosaic virus

Citrus aurantiifolia
Citrus tristeza virus
Citrus vein enation-woody gall virus

Citrus aurantium
Citrus tristeza virus
Citrus vein enation-woody gall virus

Citrus limon
Citrus infectious variegation virus

Citrus x paradisi
Citrus tristeza virus
Citrus vein enation-woody gall virus

Citrus reticulata
Citrus tristeza virus
Citrus vein enation-woody gall virus

Citrus sinensis
Citrus vein enation-woody gall virus

Colocasia spp.
Dasheen mosaic virus

Commelina diffusa
Commelina mosaic virus

Conium maculatum
Celery mosaic virus

Celery yellow spot virus
Poison hemlock ringspot virus

Coriandrum sativum
Celery mosaic virus
Clover yellow vein virus

Crambe sp.
Beet western yellows virus

Crocus vernus
Iris severe mosaic virus

Crotalaria anagyroides
Centrosema mosaic virus

Crotalaria goreensis
Centrosema mosaic virus

Crotalaria incana
Cowpea aphid-borne mosaic virus [Crotalaria mosaic virus strain]

Crotalaria mucronata
Centrosema mosaic virus

Crotalaria retusa
Centrosema mosaic virus

Crotalaria spectabilis
Bean yellow mosaic virus
Blackeye cowpea mosaic virus
Crotalaria spectabilis yellow mosaic virus

Cucumis melo
Muskmelon vein necrosis virus
Papaya ringspot (type W) virus
Watermelon mosaic virus 2
Zucchini yellow mosaic virus

Cucumis sativus
Beet western yellows virus
Tobacco ringspot virus
Watermelon mosaic virus 2
Zucchini yellow mosaic virus

Cucurbita pepo
Beet western yellows virus
Papaya ringspot (type W) virus
Watermelon mosaic virus 2
Zucchini yellow mosaic virus

Cucurbitaceae
Cucumber mosaic virus

Cyamopsis tetragonolobus
Guar symptomless virus

Cynara scolymus
Artichoke latent virus
Artichoke virus

Cyphomandra betacea
Tamarillo mosaic virus

Dactylis glomerata
Cocksfoot mild mosaic virus
Cocksfoot streak virus

Dahlia pinnata
Dahlia mosaic virus

Datura x candida
Datura (Colombian) virus

Datura fastuosa
Datura distortion mosaic virus

Datura metel
Datura distortion mosaic virus
Pepper veinal mottle virus

Datura meteloides
Pepper mottle virus

Datura spp.
Henbane mosaic virus

Datura stramonium
Pepper veinal mottle virus
Tobacco etch virus
Tobacco mottle virus
Tobacco vein distorting virus

Daucus carota
Carrot mottle virus
Carrot thin leaf virus
Celery mosaic virus
Clover yellow vein virus

Desmodium distortum
Centrosema mosaic virus

Desmodium incanum
Desmodium mosaic virus

Dianthus barbatus
Carnation vein mottle virus

Dianthus caryophyllus
Carnation etched ring virus
Carnation latent virus
Carnation necrotic fleck virus
Carnation vein mottle virus

Dieffenbachia spp.
Dasheen mosaic virus

Dioscorea alata
Dioscorea alata ring mottle virus
Yam mosaic virus

Dioscorea batatas
Chinese yam necrotic mosaic virus

Dioscorea x cayenensis
Yam mosaic virus

Dioscorea dumetorum
Yam mosaic virus

Dioscorea esculenta
Yam mosaic virus

Dioscorea praehensilis
Yam mosaic virus

Dioscorea preussii
Yam mosaic virus

Dioscorea rotundata
Dioscorea green-banding mosaic virus
Yam mosaic virus

Dioscorea trifida
Dioscorea trifida virus

Dipsacus fullonum
Teasel mosaic virus

Elettaria cardamomum
Cardamom mosaic virus

Eleusine spp.
Sugarcane mosaic virus

Embergeria megalocarpa
Lettuce necrotic yellow virus

Erigeron sp.
Bidens mottle virus

Erodium moschatum
Filaree red leaf virus
Subterranean clover red leaf virus

Eucalyptus sp.
Citrus vein enation-woody gall virus

Eucharis candida
Tobacco ringspot virus

Eucharis grandiflora
Hippeastrum mosaic virus

Eucomis spp.
Ornithogalum mosaic virus

Eustoma grandiflorum
Bean yellow mosaic virus

Ficus sp.
Citrus vein enation-woody gall virus

Fittonia verschaffeltii var. argyroneura
Bidens mottle virus

Fragaria x ananassa
Strawberry crinkle virus
Strawberry mild yellow edge virus
Strawberry vein banding virus

Fragaria chiloensis
Strawberry crinkle virus
Strawberry mild yellow edge virus
Strawberry mottle virus
Strawberry stunt virus
Strawberry vein banding virus

Fragaria spp.
Raspberry leaf curl virus

Fragaria vesca
Strawberry crinkle virus
Strawberry latent C virus
Strawberry mild yellow edge virus
Strawberry mottle virus
Strawberry stunt virus
Strawberry vein banding virus

Fragaria vesca ssp. californica
Strawberry mottle virus

Fragaria virginiana
Strawberry crinkle virus

Strawberry mild yellow edge virus
Strawberry vein banding virus

Freesia refracta
Freesia mosaic virus

Freesia sp.
Bean yellow mosaic virus

Gladiolus 'Scarlet Royal'
Narcissus latent virus

Gladiolus sp.
Bean yellow mosaic virus
Tobacco ringspot virus

Glycine max
Bean yellow mosaic virus
Beet western yellows virus
Clover yellow vein virus
Indonesian soybean dwarf virus
Milk vetch dwarf virus
Passionfruit woodiness virus
Peanut mottle virus
Soybean dwarf virus
Soybean mild mosaic virus
Soybean mosaic virus
Soybean stunt virus
Subterranean clover red leaf virus
Tobacco ringspot virus

Gossypium barbadense
Cotton anthocyanosis virus

Gossypium hirsutum
Cotton anthocyanosis virus

Gynura aurantiaca
Chrysanthemum virus B

Helenium spp.
Helenium virus S

Helianthus annuus
Beet western yellows virus

Heracleum sphondylium
Heracleum latent virus

Hesperis matronalis
Turnip mosaic virus

Hippeastrum x hybridum
Hippeastrum mosaic virus

Nerine latent virus

Hippeastrum puniceum
Hippeastrum mosaic virus

Holodiscus discolor
Holodiscus witches' broom virus

Hordeum vulgare
Barley yellow dwarf virus
Wheat yellow leaf virus

Humulus lupulus
American hop latent virus
Hop latent virus
Hop mosaic virus

Humulus lupulus var. neomexicanus
Hop line pattern virus

Hyacinthus orientalis
Hyacinth mosaic virus

Hydrangea sp.
Tobacco ringspot virus

Hyoscyamus niger
Henbane mosaic virus

Impatiens holstii
Helenium virus S

Ipomoea batatas
Sweet potato internal cork virus
Sweet potato vein mosaic virus
Sweet potato virus A

Ipomoea batatas 'Jersey'
Sweet potato feathery mottle virus

Ipomoea spp.
Sweet potato feathery mottle virus

Iris danfordiae
Iris mild mosaic virus

Iris filifolia
Iris (bulbous) mosaic virus

Iris fulva
Iris fulva mosaic virus

Iris hollandica 'Prof. Blaauw'
Alstroemeria mosaic virus

Iris reticulata
Iris mild mosaic virus

Iris sp.
Iris mild mosaic virus
Iris severe mosaic virus
Tobacco ringspot virus

Iris tingitana
Iris (bulbous) mosaic virus

Iris tingitana x Iris xiphium
Iris mild mosaic virus

Iris unguicularis
Iris (bulbous) mosaic virus

Iris xiphioides
Iris (bulbous) mosaic virus
Iris mild mosaic virus

Iris xiphium
Iris (bulbous) mosaic virus
Iris mild mosaic virus

Iris xiphium 'Praecox' x Iris tingitana
Narcissus latent virus

Lactuca sativa
Alfalfa mosaic virus
Beet western yellows virus
Beet yellow stunt virus
Bidens mottle virus
Dandelion yellow mosaic virus
Lettuce mosaic virus
Lettuce necrotic yellow virus
Sowthistle yellow vein virus

Lathyrus odoratus
Pea enation mosaic virus

Lathyrus pusillus
Bean leaf wilt virus

Lavatera assurgentiflora
Malva vein clearing virus

Lens culinaris
Subterranean clover red leaf virus

Lepidium virginicum
Bidens mottle virus

Lilium formosanum
Lily symptomless virus

Lilium longiflorum
Lily symptomless virus

Lilium longiflorum var. formosum
Lily rosette virus

Lilium longiflorum var. giganteum
Lily rosette virus

Lilium longiflorum var. harrisii
Lily rosette virus

Lilium regale
Cucumber mosaic virus [Lily ringspot virus strain]

Lilium sp.
Tobacco ringspot virus
Tomato aspermy virus
Tulip breaking virus

Lilium tigrinum
Cucumber mosaic virus [Lily ringspot virus strain]

Limonium sinuatum
Clover yellow vein virus

Linaria canadensis
Tobacco etch virus

Lolium multiflorum
Barley yellow dwarf virus
Wheat yellow leaf virus

Lolium perenne
Barley yellow dwarf virus

Lonicera americana
Honeysuckle latent virus

Lonicera x brownii 'Dropmore Scarlet'
Honeysuckle latent virus

Lonicera x brownii 'Fucksioides'
Honeysuckle latent virus

Lonicera x brownii 'Punicea'
Honeysuckle latent virus

Lonicera caprifolium
Honeysuckle latent virus

Lonicera heckrottii 'Goldflame'
Honeysuckle latent virus

Lonicera henryi
Honeysuckle latent virus

Lonicera japonica 'Halliana'
Honeysuckle latent virus

Lonicera japonica 'Reticulata'
Honeysuckle latent virus

Lonicera periclymenum 'Belgica Elect'
Honeysuckle latent virus

Lonicera periclymenum var. belgica
Honeysuckle latent virus

Lonicera periclymenum var. serotina
Honeysuckle latent virus

Lonicera x tellmanniana
Honeysuckle latent virus

Lupinus albus
Peanut stripe virus

Lupinus angustifolius
Bidens mottle virus

Lupinus luteus
Bean yellow mosaic virus
Clover yellow vein virus

Lupinus sp.
Alfalfa mosaic virus
Clover yellow vein virus
Subterranean clover red leaf virus

Lycopersicon lycopersicum
Alfalfa mosaic virus
Beet western yellows virus
Pepper veinal mottle virus
Peru tomato virus
Potato leafroll virus
Potato leafroll virus [Tomato yellow top virus strain]
Potato virus Y
Tobacco mottle virus
Tobacco ringspot virus
Tobacco vein distorting virus
Tomato aspermy virus

Tomato yellow net virus

Lycopersicon pimpinellifolium
Tomato yellow net virus

Maclura pomifera
Maclura mosaic virus

Macroptilium atropurpureum
Passionfruit woodiness virus

Malva parviflora
Alfalfa mosaic virus
Malva vein clearing virus
Malva yellows virus

Matthiola incana 'Annua'
Turnip mosaic virus [Stock mosaic virus strain]

Medicago arabica
Alsike clover mosaic virus
Pea enation mosaic virus
Subterranean clover stunt virus

Medicago hispida
Subterranean clover stunt virus

Medicago lupulina
Subterranean clover stunt virus

Medicago minima
Subterranean clover stunt virus

Medicago polymorpha
Legume yellows virus

Medicago sativa
Alfalfa (Michigan) virus
Alfalfa mosaic virus
Bean leaf roll virus
Bean yellow mosaic virus
Legume yellows virus
Lucerne enation virus
Pea streak virus [Alfalfa latent virus strain]

Melilotus indica
Beet mosaic virus

Melothria pendula
Papaya ringspot (type W) virus
Zucchini yellow mosaic virus

Mirabilis nyctaginea
Mirabilis mosaic virus

Momordica charantia
Papaya ringspot (type W) virus

Morrenia odorata
Araujia mosaic virus

Morus alba
Mulberry mosaic virus

Morus australis
Mulberry mosaic virus

Morus sp.
Citrus vein enation-woody gall virus

Musa accuminata
Banana bunchy top virus

Musa textilis
Sugarcane mosaic virus [Abaca mosaic virus strain]

Narcissus jonquilla
Narcissus yellow stripe virus

Narcissus pseudonarcissus
Narcissus latent virus
Narcissus yellow stripe virus

Nelumbo nucifera
Lotus streak virus

Nerine bowdenii
Narcissus yellow stripe virus
Nerine latent virus
Nerine virus

Nerine sarniensis
Nerine virus

Nerine sarniensis 'Rotherside'
Narcissus latent virus

Nicotiana glutinosa
Tobacco mottle virus
Tobacco vein distorting virus

Nicotiana rustica
Tobacco yellow vein assistor virus
Tobacco yellow vein virus

Nicotiana spp.
Potato virus Y

Nicotiana sylvestris
Tobacco vein distorting virus

Nicotiana tabacum
Alfalfa mosaic virus
Pepper veinal mottle virus
Tobacco mottle virus
Tobacco necrotic dwarf virus
Tobacco ringspot virus
Tobacco vein distorting virus
Tobacco vein mottling virus

Oriza sativa
Barley yellow dwarf virus

Ornithogalum thyrsoides
Ornithogalum mosaic virus

Panicum maximum
Guinea grass mosaic virus

Panicum spp.
Sugarcane mosaic virus

Papaver somniferum
Bean yellow mosaic virus

Passiflora aurantia
Passionfruit woodiness virus

Passiflora edulis
Passiflora ringspot virus
Passionfruit woodiness virus

Passiflora foetida
Passiflora ringspot virus
Passionfruit woodiness virus

Passiflora suberosa
Passionfruit woodiness virus

Passiflora subpeltata
Passionfruit woodiness virus

Pastinaca sativa
Celery mosaic virus
Celery yellow spot virus
Parsnip mosaic virus
Parsnip yellow fleck virus

Pelargonium sp.
Tobacco ringspot virus

Pennisetum americanum
Guinea grass mosaic virus

Petroselinum crispum
Broad bean wilt virus
Celery mosaic virus

Petunia x hybrida
Broad bean wilt virus
Pepper veinal mottle virus

Phaseolus spp.
Peanut stunt virus

Phaseolus vulgaris
Alfalfa mosaic virus
Bean common mosaic virus
Bean yellow mosaic virus
Milk vetch dwarf virus
Passionfruit woodiness virus
Peanut mottle virus
Soybean dwarf virus
Subterranean clover stunt virus

Philadelphus sp.
Alfalfa mosaic virus

Phlox drummondii
Beet western yellows virus

Physalis alkekengi
Henbane mosaic virus

Physalis pubescens
Physalis floridana yellow net virus

Physalis spp.
Tobacco etch virus

Pisum sativum
Alfalfa mosaic virus
Bean big vein virus
Bean leaf roll virus
Bean leaf roll virus [Chickpea stunt virus strain]
Bean yellow mosaic virus
Beet western yellows virus
Broad bean wilt virus
Clover yellow vein virus
Milk vetch dwarf virus
Muskmelon vein necrosis virus
Pea enation mosaic virus

Pea pimple pod virus
Pea seed-borne mosaic virus
Pea streak virus
Peanut mottle virus
Soybean dwarf virus
Subterranean clover red leaf virus
Subterranean clover stunt virus

Pisum sativum 'Telephone'
Pea pimple pod virus

Plantago lanceolata
Broad bean wilt virus

Primula malacoides
Primula mottle virus

Primula obconica
Primula mosaic virus

Prunus armeniaca
Plum pox virus

Prunus domestica
Citrus vein enation-woody gall virus
Plum pox virus
Sowbane mosaic virus

Prunus persica
Plum pox virus

Raphanus sativus
Beet western yellows virus
Turnip mosaic virus [Radish mosaic virus strain]

Raphanus spp.
Cauliflower mosaic virus

Reichardia picroides
Lettuce necrotic yellow virus

Ribes sativum
Red currant vein banding virus

Ribes spp.
Gooseberry vein banding virus

Ribes uva-crispa
Gooseberry vein banding virus

Robinia pseudoacacia
Bean yellow mosaic virus

Peanut stunt virus [Robinia mosaic virus strain]

Rosa sp.
Citrus vein enation-woody gall virus

Rosaceae
Cucumber mosaic virus

Rubus fruticosus
Blackberry dwarf virus

Rubus idaeus
Raspberry leaf mottle virus
Raspberry leaf spot virus
Raspberry vein chlorosis virus
Rubus yellow net virus

Rubus x loganobaccus
Blackberry dwarf virus

Rubus occidentalis
Black raspberry necrosis virus
Rubus yellow net virus

Rubus parviflorus
Thimbleberry ringspot virus

Rubus spp.
Black raspberry necrosis virus
Raspberry leaf curl virus

Rumex crispus
Dock (New Zealand) mosaic virus
Dock mosaic virus

Rumex lanceolatus
Dock mosaic virus

Rumex obtusifolius
Dock (New Zealand) mosaic virus
Dock mosaic virus

Rumex pulcher
Dock (New Zealand) mosaic virus
Dock mosaic virus

Rumex sp.
Tobacco vein mottling virus

Saccharum spp.
Sugarcane mosaic virus

Sambucus nigra
Elderberry virus

Sambucus racemosa
Elderberry virus

Sambucus racemosa 'Plumosa'
Elderberry virus

Scabiosa atropurpurea
Teasel mosaic virus

Secale cereale
Barley yellow dwarf virus
Wheat yellow leaf virus

Senecio cruentus
Cineraria mosaic virus

Senecio glabellus
Sonchus yellow net virus

Senecio sp.
Bidens mottle virus

Senecio vulgaris
Artichoke latent virus
Lettuce mosaic virus

Setaria spp.
Sugarcane mosaic virus

Sida rhombifolia
Cotton anthocyanosis virus

Solanaceae
Cucumber mosaic virus

Solanum carolinense
Tobacco vein mottling virus

Solanum integrifolium
Pepper veinal mottle virus

Solanum jasminoides
Tobacco wilt virus

Solanum melongena
Pepper veinal mottle virus

Solanum nigrum
Pepper veinal mottle virus
Peru tomato virus
Potato leafroll virus [Tomato yellow top virus strain]

Tamarillo mosaic virus

Solanum sp.
Pepper mottle virus
Tobacco etch virus

Solanum tuberosum
Alfalfa mosaic virus
Potato aucuba mosaic virus
Potato virus A
Potato virus M
Potato virus S
Potato virus V
Potato virus Y
Potato virus Y [Potato virus C strain]

Solanum tuberosum ssp. andigena
Potato leafroll virus

Solanum tuberosum ssp. tuberosum
Potato leafroll virus

Sonchus hydrophilus
Lettuce necrotic yellow virus

Sonchus oleraceus
Beet yellow stunt virus
Lettuce necrotic yellow virus
Sonchus yellow net virus
Sowthistle yellow vein virus

Sonchus spp.
Lettuce mosaic virus

Sorghum bicolor
Sugarcane mosaic virus

Sorghum halepense
Sugarcane mosaic virus

Spinacia oleracea
Beet yellows virus
Broad bean wilt virus
Spinach yellow dwarf virus
Tobacco necrotic dwarf virus

Stellaria media
Turnip mosaic virus

Taraxacum officinale
Dandelion yellow mosaic virus

Telfairia occidentalis
Telfairia mosaic virus

Tigridia pavonia
Tigridia mosaic virus

Trifolium cernuum
Subterranean clover stunt virus

Trifolium glomeratum
Subterranean clover stunt virus

Trifolium hybridum
Bean yellow mosaic virus
Clover mild mosaic virus
Clover yellow vein virus
Turnip mosaic virus

Trifolium incarnatum
Alfalfa mosaic virus
Bean big vein virus
Bean yellow mosaic virus
Beet mosaic virus
Clover yellow vein virus
Clover yellows virus
Pea enation mosaic virus

Trifolium pratense
Bean yellow mosaic virus
Clover mild mosaic virus
Clover yellow vein virus
Red clover vein mosaic virus
Soybean dwarf virus
Subterranean clover stunt virus

Trifolium procumbens
Subterranean clover stunt virus

Trifolium repens
Alfalfa mosaic virus
Bean leaf roll virus
Bean yellow mosaic virus
Clover blotch virus
Clover yellow vein virus
Clover yellows virus
Subterranean clover red leaf virus
Subterranean clover stunt virus

Trifolium sp.
Peanut stunt virus

Trifolium subterraneum
Bean yellow mosaic virus
Beet western yellows virus

Clover yellow vein virus
Subterranean clover red leaf virus
Subterranean clover stunt virus

Trifolium vesiculosum
Clover yellow vein virus

Trigonella foenum-graecum
Bean yellow mosaic virus

Triticum aestivum
Barley yellow dwarf virus
Wheat yellow leaf virus

Tritonia crocata
Tigridia mosaic virus

Tropaeolum majus
Broad bean wilt virus
Nasturtium mosaic virus
Nasturtium ringspot virus

Tulipa gesneriana
Lily symptomless virus

Tulipa spp.
Tulip breaking virus

Ullucus tuberosus
Ullucus mosaic virus

Ulmus sp.
Citrus vein enation-woody gall virus

Umbelliferae
Heracleum latent virus

Uncaria gambir
Gambir mosaic virus

Urtica urens
Hop mosaic virus

Vaccinium corymbosum
Blueberry shoestring virus

Vaccinium sp.
Tobacco ringspot virus

Vanilla pompona
Vanilla mosaic virus

Vanilla tahitensis
Vanilla mosaic virus

Viburnum opulus
Alfalfa mosaic virus

Viburnum sp.
Citrus vein enation-woody gall virus

Vicia faba
Bean leaf roll virus
Bean yellow mosaic virus
Bean yellow vein banding virus
Beet western yellows virus
Broad bean (India) mosaic virus
Broad bean fireblight virus
Broad bean mild mosaic virus
Broad bean severe chlorosis virus
Broad bean V virus
Broad bean wilt virus
Dolichos ringspot mottle virus
Legume yellows virus
Lucerne enation virus
Milk vetch dwarf virus
Pea enation mosaic virus
Subterranean clover red leaf virus
Subterranean clover stunt virus

Vicia sativa
Bean yellow mosaic virus
Legume yellows virus
Pea enation mosaic virus

Vicia sp.
Peanut stunt virus

Vigna angularis
Azuki bean mosaic virus

Vigna cylindrica
Crotalaria (Sann Hemp) mosaic virus

Vigna radiata
Alfalfa mosaic virus

Vigna unguiculata
Alfalfa mosaic virus
Blackeye cowpea mosaic virus
Cowpea aphid-borne mosaic virus
Cowpea green vein banding virus
Cowpea stunt virus

Vigna unguiculata ssp. sesquipedalis
Cowpea stunt virus

Vitis sp.
Sowbane mosaic virus

Wisteria sinensis
Subterranean clover stunt virus

Xanthosoma spp.
Dasheen mosaic virus

Zantedeschia spp.
Dasheen mosaic virus

Zea mays
Barley yellow dwarf virus
Guinea grass mosaic virus
Sugarcane mosaic virus

Zea mays 'Golden Bantam'
Maize leaf fleck virus

Zinnia elegans
Artichoke latent virus

GEOGRAPHICAL DISTRIBUTION OF APHID-TRANSMITTED VIRUSES

Alfalfa (Michigan) virus
Spreads in the U.S.A.

Alfalfa mosaic virus
Spreads world-wide.

Alsike clover mosaic virus
Found in England.

Alstroemeria mosaic virus
Spreads in the Netherlands and the U.K.

Alstroemeria virus
Found, but no evidence of spread in England.

American hop latent virus
Spreads in the U.S.A. No spread has been detected in England, W. Germany & Australia. Also found in New Zealand.

Araujia mosaic virus
Spreads in Argentina.

Arracacha virus Y
Spreads in Peru.

Artichoke latent virus
Spreads in California, U.S.A.

Artichoke virus
Spreads in Victoria, Australia.

Asystasia gangetica mottle virus
Spreads in the Ivory Coast, Guinea and the Congo.

Azuki bean mosaic virus
Spreads in Japan.

Banana bunchy top virus
Spreads in Africa, Asia, Australia, China, India and the Middle East.

Barley yellow dwarf virus
Spreads world-wide.

Bean big vein virus
Found in southern England.

Bean common mosaic virus
Spreads world-wide.

Bean leaf roll virus
Spreads in Europe, Iran and the U.S.A.

Bean leaf roll virus [Chickpea stunt virus strain]
Spreads in Ethiopia, Iran, Lebanon, Pakistan, Sudan, Syria, Tunisia, Turkey and the U.S.A.

Bean leaf wilt virus
Recorded in Wisconsin, U.S.A.

Bean yellow mosaic virus
Spreads world-wide.

Bean yellow mosaic virus [Canna mosaic virus strain]
Found in Philippines and U.S.A.

Bean yellow vein banding virus
Spreads in the U.K.

Beet mosaic virus
Spreads world-wide, especially in temperate regions.

Beet western yellows virus
Probably spreads world-wide.

Beet yellow net virus
Spreads in California, U.S.A. and Europe.

Beet yellow stunt virus
Spreads in Europe.

Beet yellows virus
Spreads world-wide.

Beet 41 yellows virus
Found in England.

Bidens mottle virus
Widespread in Florida, U.S.A.

Black raspberry necrosis virus
Spreads in Europe.

Blackberry dwarf virus
Spreads in British Columbia, Canada;California, Oregon and Washington, U.S.A.

Blackeye cowpea mosaic virus
Reported in Africa, Brazil, India, Japan, Malaysia, Taiwan, Thailand and the U.S.A.

Blueberry shoestring virus
Reported in Michigan, New Jersey and Washington States, U.S.A. and Nova Scotia, Canada.

Broad bean (India) mosaic virus
Found in Delhi, India.

Broad bean fireblight virus
Spreads in China.

Broad bean mild mosaic virus
Found in China.

Broad bean severe chlorosis virus
Spreads in Michigan, U.S.A.

Broad bean V virus
Found in Spain.

Broad bean wilt virus
Spreads in Africa, Asia, Australasia, China, Europe and North America. Found, but no evidence of spread in Argentina.

Broccoli necrotic yellows virus
Spreads in Australia and England.

Canavalia maritima mosaic virus
Spreads in Puerto Rico.

Cardamom mosaic virus
Spreads in Guatemala.

Carnation etched ring virus
Spreads world-wide.

Carnation latent virus
Spreads world-wide.

Carnation necrotic fleck virus
Spreads world-wide.

Carnation vein mottle virus
Spreads world-wide.

Carrot mottle virus
Spreads in Australia, Canada, Germany, Japan, New Zealand, the U.K. and the U.S.A.

Carrot thin leaf virus
Reported only from the semi-desert irrigated area of north-western U.S.A.

Cattleya mosaic virus
Found in California, U.S.A.

Cauliflower mosaic virus
Spreads world-wide.

Celery mosaic virus
Spreads world-wide.
Celery mosaic virus [Celery crinkle leaf mosaic virus strain]
Spreads in California, U.S.A.

Celery yellow spot virus
Spreads in California, U.S.A. and Europe.

Centrosema mosaic virus
Spreads in Papua, New Guinea.

Chickpea distortion mosaic virus
Spreads in Maharashtra state, India.

Chilli mosaic virus
Found in India and Trinidad.

Chinese yam necrotic mosaic virus
Spreads in Japan.

Chrysanthemum good news mosaic virus
Found in Maryland, U.S.A.

Chrysanthemum virus B
Spreads world-wide.
Chrysanthemum virus B [Chrysanthemum vein mottle virus strain]
Spreads in Australia.

Cineraria mosaic virus
Found in Washington, U.S.A.

Citrus infectious variegation virus
Found in California, U.S.A.

Citrus tristeza virus
Spreads world-wide in tropical and semi-tropical areas where citrus is grown.

Citrus vein enation-woody gall virus
Spreads in particular California in the U.S.A., South Africa and Australia.

Clover blotch virus
Spreads in Czechoslovakia.

Clover mild mosaic virus
Spreads in Sweden.

Clover yellow vein virus
Spreads world-wide.

Clover yellows virus
Spreads in Japan.

Cocksfoot mild mosaic virus
Spreads in Europe.

Cocksfoot streak virus
Spreads in Europe.

Commelina mosaic virus
Spreads in the U.S.A.

Cotton anthocyanosis virus
Spreads in Brazil.

Cowpea aphid-borne mosaic virus
Spreads in Australia, China, India, Iran, Italy, Japan, Kenya, Nigeria, Tanzania, and Uganda.

Cowpea aphid-borne mosaic virus [Crotalaria mosaic virus strain]
Recorded from Hawaii, India, Japan, Puerto Rico, Trinidad and Virginia.

Cowpea green vein banding virus
Spreads in Brazil.

Cowpea stunt virus
Spreads in Indonesia and Thailand.

Crotalaria (Sann Hemp) mosaic virus
Found in Bombay State, India.

Crotalaria spectabilis yellow mosaic virus
Spreads in Nigeria.

Cucumber mosaic virus
Spreads world-wide.

Cucumber mosaic virus [Lily ringspot virus strain]
Spreads in England and the U.S.A.

Dahlia mosaic virus
Spreads world-wide.

Dandelion yellow mosaic virus
Spreads in Europe.

Dasheen mosaic virus
Spreads world-wide, escpecially tropical and subtropical regions.

Datura (Colombian) virus
Spreads in Colombia.

Datura distortion mosaic virus
Spreads in Maharashtra state, India.

Desmodium mosaic virus
Spreads in the U.S.A.

Dioscorea alata ring mottle virus
Spreads in Togo.

Dioscorea green-banding mosaic virus
Spreads in Nigeria and Tongo of West Africa.

Dioscorea trifida virus
Spreads in Guadeloupe.

Dock (New Zealand) mosaic virus
Found in New Zealand.

Dock mosaic virus
Found, but no evidence of spread in Australia, England, New Zealand and the U.S.A.

Dolichos ringspot mottle virus
Found in China.

Elderberry virus
Found in the Netherlands.

Filaree red leaf virus
Found in California, U.S.A.

Freesia mosaic virus
Spreads in Australia, Ireland, the Netherlands and the U.K. Found in New Zealand.

Gambir mosaic virus
Found in East India.

Garlic yellow streak virus
Probably spreads world-wide, but found particularly in Australia and New Zealand.

Gooseberry vein banding virus
Spreads in Europe.

Groundnut eyespot virus
Spreads in the Ivory Coast.

Groundnut rosette assistor virus
Spreads in Africa (South of the Sahara), India and Phillipines.

Groundnut rosette virus
Spreads in Africa (south of the Sahara), India and Phillipines

Guar symptomless virus
Found, but no evidence of spread in Australia, India, Pakistan and the U.S.A.

Guinea grass mosaic virus
Spreads in the Ivory Coast.

Helenium virus S
Spreads in continental Europe and North America.

Henbane mosaic virus
Spreads in Europe.

Heracleum latent virus
Spreads in the Netherlands and the U.K.

Hippeastrum mosaic virus
Spreads in Czechoslovakia, England, Fiji, Japan, the Netherlands, South Africa, and the U.S.A.

Holodiscus witches' broom virus
Found in Oregon, U.S.A.

Honeysuckle latent virus
Spreads in the Netherlands. Found, but no evidence of spread in the U.K.

Hop latent virus
Spreads in Australia, China, Europe and the U.S.A. Found in New Zealand.

Hop line pattern virus
Found in England.

Hop mosaic virus
Spreads in Australia, China, Europe and the U.S.A. Found in New Zealand.

Hyacinth mosaic virus
Spreads in Australia, Bulgaria, the Netherlands, the U.K. and the U.S.A.

Indonesian soybean dwarf virus
Spreads in Indonesia and Thailand.

Iris (beardless) mosaic virus
Found in U.S.A.

Iris (bulbous) mosaic virus
Found in U.S.A.

Iris fulva mosaic virus
Spreads in the U.S.A.

Iris mild mosaic virus
Spreads world-wide.

Iris severe mosaic virus
Spreads in Australia, Britain, Czechoslovakia, Denmark, Japan, the Netherlands, Sweden and the U.S.A.

Leek yellow strip virus
Spreads in Europe and New Zealand.

Legume yellows virus
Spreads in the U.S.A.

Lettuce mosaic virus
Spreads world-wide.

Lettuce necrotic yellow virus
Spreads in Australia. Found in New Zealand.

Lily rosette virus
Spreads in Bermuda.

Lily symptomless virus
Spreads world-wide.

Lily symptomless virus [Alstroemeria virus strain]
Spreads in the Netherlands and the U.K.

Lotus streak virus
Spreads in Japan.

Lucerne enation virus
Spreads in the south of France and the Mediteranean. Found, but no evidence of spread in Italy, Morocco, Romania, Spain and Yugoslavia.

Maclura mosaic virus
Recorded only from Yugoslavia.

Maize leaf fleck virus
Found in California, U.S.A.

Malva vein clearing virus
Spreads in California, U.S.A.

Malva yellows virus
Found in California, U.S.A.

Milk vetch dwarf virus
Spreads in Japan.

Mirabilis mosaic virus
Spreads in the U.S.A.

Mulberry mosaic virus
Spreads in India.

Muskmelon vein necrosis virus
Spreads in California, U.S.A.

Narcissus latent virus
Spreads in Australia, Britain and the Netherlands.

Narcissus yellow stripe virus
Spreads in Europe and possibly Australia.

Nasturtium mosaic virus
Found in California, U.S.A.

Nasturtium ringspot virus
Found in Aschersleben, East Germany.

Nerine latent virus
Spreads in England and the Netherlands.

Nerine virus
Spreads in England and the Netherlands.

Onion yellow dwarf virus
Spreads world-wide.

Ornithogalum mosaic virus
Found in Oregon, U.S.A.
Spreads in Europe, South Africa and the U.S.A.

Papaya mosaic virus
Found in Bombay and Poona States of India.

Papaya ringspot (type P) virus
Spreads in Caribbean countries, France, Germany, India, Italy, Mexico, Middle Eastern countries, South America and the U.S.A.

Papaya ringspot (type W) virus
Spreads in Australia, Carribean countries, France, Germany, India, Italy, Mexico, Middle Eastern countries, South America and the U.S.A.

Parsnip mosaic virus
Spreads in Europe.

Parsnip yellow fleck virus
Spreads in Europe.

Parsnip yellow fleck virus [Anthriscus yellows virus strain]
Found in Scotland.
Spreads in Europe.

Passiflora ringspot virus
Spreads in the Ivory Coast.

Passionfruit woodiness virus
Spreads in Australia and South America (Brazil). Found in New Zealand.

Pea enation mosaic virus
Spreads in Canada, China, Iran, the U.K. and the U.S.A.

Pea pimple pod virus
Spreads in Australia.

Pea seed-borne mosaic virus
Spreads in Asia, Australia, North America and the U.K. Found in New Zealand.

Pea streak virus
Spreads in Canada, Europe and the U.S.A.

Pea streak virus [Alfalfa latent virus strain]
Spreads in North America.

Peanut chlorotic streak virus
Spreads in India.

Peanut green mosaic virus
Spreads in India.

Peanut mild mottle virus
Spreads in China.

Peanut mottle virus
Spreads in East Africa, south-east Asia, India, Phillipines, Taiwan, Malaysia, north-east Australia, South America, south-east of the U.S.A. and probably Japan.

Peanut stripe virus
Spreads in Indonedia, Phillipines and Thailand. Found, but no evidence of spread in U.S.A.

Peanut stunt virus
Spreads in Asia, Japan, France, Morroco, Poland, Spain and the U.S.A.

Peanut stunt virus [Robinia mosaic virus strain]
Spreads in Europe.

Pepper mottle virus
Spreads in El Salvador, India and the U.S.A.

Pepper veinal mottle virus
Spreads in Ghana, Ivory Coast, Kenya, Nigeria and South Africa.

Peru tomato virus
Spreads in Peru.

Physalis floridana yellow net virus
Found in Maine, U.S.A.

Plum pox virus
Spreads in Europe.

Poison hemlock ringspot virus
Found in California, U.S.A.
Spreads in California, U.S.A.

Potato aucuba mosaic virus
Spreads world-wide but uncommon.

Potato leafroll virus
Spreads world-wide.

Potato leafroll virus [Tomato yellow top virus strain]
Spreads in Australia, Brazil, New Zealand and the U.S.A.

Potato virus A
Spreads world-wide.

Potato virus M
Spreads world-wide.

Potato virus S
Spreads world-wide.

Potato virus V
Spreads in Ireland, the Netherlands and Peru.

Potato virus Y
Spreads world-wide.

Potato virus Y [Potato virus C strain]
Found in Australia, Europe, India and the U.K.

Primula mosaic virus
Spreads in California, U.S.A.

Primula mottle virus
Spreads in Delhi, India.

Raspberry leaf curl virus
Spreads in Canada and the U.S.A.

Raspberry leaf mottle virus
Spreads in Europe.

Raspberry leaf spot virus
Spreads in Europe.

Raspberry vein chlorosis virus
Spreads in Europe. Found, but no evidence of spread in Canada and New Zealand.

Red clover vein mosaic virus
Spreads in Germany, the Netherlands and North America. Found, but no evidence of spread in Sweden, Switzerland and the U.K.

Red currant vein banding virus
Spreads in Europe.

Rubus yellow net virus
Spreads in Europe and North America.

Shallot latent virus
Spreads in Denmark, England, France and the Netherlands.

Sonchus yellow net virus
Spreads in central and south Florida, U.S.A.

Sowbane mosaic virus
Spreads in Australia, Bulgaria, Canada, Central America, Czechoslovakia, Italy, Japan, South America, the U.S.A. and Yugoslavia.

Sowthistle yellow vein virus
Spreads in Europe and the U.S.A.

Soybean dwarf virus
Spreads in Australia, Japan, New Zealand and the U.S.A. (California).

Soybean mild mosaic virus
Spreads in Japan.

Soybean mosaic virus
Spreads world-wide.

Soybean stunt virus
Spreads in Indonesia, Japan and Korea.

Spinach yellow dwarf virus
Found in California, U.S.A.

Strawberry crinkle virus
Spreads world-wide, particularly in Australia, Asia,

Europe, Japan, New Zealand, North and South America and South Africa.

Strawberry latent C virus
Spreads in eastern North America.

Strawberry mild yellow edge virus
Spreads world-wide, particularly in Australia, Europe, Israel, Japan and North America.

Strawberry mottle virus
Found in England and the U.S.A.

Strawberry stunt virus
Found in Oregon and Washington, U.S.A.

Strawberry vein banding virus
Spreads in Africa, Australia, Brazil, Europe (particularly Germany, but not in the U.K.), Japan and the U.S.A.

Subterranean clover red leaf virus
Spreads in Australia, New Zealand and the U.S.A.(California).

Subterranean clover stunt virus
Spreads in Australia.

Sugarcane mosaic virus
Spreads world-wide.

Sugarcane mosaic virus [Abaca mosaic virus strain]
Found in Philippines.

Sweet potato feathery mottle virus
Spreads in Australia, Israel, Kenya, New Zealand, Nigeria, Tongo and Uganda.

Sweet potato internal cork virus
Spreads in Maryland, U.S.A.

Sweet potato vein mosaic virus
Spreads in Argentina.

Sweet potato virus A
Found in East Africa.

Swordbean distortion mosaic virus
Spreads in India(Karnataka & Maharashtra States).

Tamarillo mosaic virus
Spreads in New Zealand.

Teasel mosaic virus
Found in California, U.S.A.

Telfairia mosaic virus
Spreads in Nigeria.

Thimbleberry ringspot virus
Found in British Columbia, Canada.

Tigridia mosaic virus
Found in Maryland and Washington, U.S.A.

Tobacco etch virus
Common in North and South America. Reported from Canada, Mexico, Puerto Rico, Venezuela and the U.S.A.(inc. Hawaii).

Tobacco mottle virus
Spreads in Zimbabwe, Africa.

Tobacco necrotic dwarf virus
Spreads in Japan.

Tobacco ringspot virus
Spreads in North America. Found, but no evidence of spread in Australia, Germany, New Zealand and the U.K.

Tobacco vein distorting virus
Spreads in Zimbabwe, Africa.

Tobacco vein mottling virus
Spreads in North America.

Tobacco wilt virus
Spreads in India.

Tobacco yellow vein assistor virus
Spreads in Malawi.

Tobacco yellow vein virus
Spreads in Malawi.

Tomato aspermy virus
Spreads in Australia, Canada, Europe, India, Japan, New Zealand, the U.S.A. and the U.S.S.R..

Tomato yellow net virus
Found in California, U.S.A.

Tulip breaking virus
Spreads world-wide.

Turnip mosaic virus
Spreads world-wide.

Turnip mosaic virus [Cabbage ring necrosis virus strain]
Found in California and Wisconsin, U.S.A.

Turnip mosaic virus [Radish mosaic virus strain]
Spreads in California, U.S.A.

Turnip mosaic virus [Stock mosaic virus strain]
Spreads in California, U.S.A.

Ullucus mosaic virus
Spreads in Bolivia and Peru.

Vanilla mosaic virus
Found, but no evidence of spread in French Polynesia on the islands of Huahine, Raiatea, Tahae and Tahiti.

Watermelon mosaic virus 2
Spreads world-wide.

Wheat yellow leaf virus
Spreads in Italy and Japan.

Yam mosaic virus
Spreads in Guadeloupe, Guyana and West Africa.

Zucchini yellow mosaic virus
Spreads in Algeria, Australia, Egypt, France, Germany, Israel, Italy, Japan, Jordania, Lebanon, Mauritius, Morocco, Spain, Taiwan, Turkey, the U.K. and the U.S.A.

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APPENDIX I a

LIST OF APHID-TRANSMITTED VIRUSES IN GROUP

Alfalfa mosaic virus group
- Alfalfa mosaic virus
- Alfalfa mosaic virus [Viburnum strain]

Bacillivirus
- "Rubus yellow net virus"

Capillovirus
- Heracleum latent virus

Carlavirus
- American hop latent virus
- *"Artichoke latent virus"
- Carnation latent virus
- "Chinese yam necrotic mosaic virus"
- Chrysanthemum virus B
- Chrysanthemum virus B [Chrysanthemum vein mottle virus strain]
- "Dock (New Zealand) mosaic virus"
- "Dock mosaic virus"
- Elderberry carlavirus
- Helenium virus S
- Honeysuckle latent virus
- Hop latent virus
- Hop mosaic virus
- Lily symptomless virus
- Lily symptomless virus [Alstroemeria virus strain]
- Muskmelon vein necrosis virus
- Narcissus latent virus
- Nerine latent virus
- Pea streak virus
- Pea streak virus [Alfalfa latent virus strain]
- Potato virus M
- Potato virus S
- Red clover vein mosaic virus
- Shallot latent virus

Caulimovirus
- Carnation etched ring virus
- Cauliflower mosaic virus
- Dahlia mosaic virus
- Mirabilis mosaic virus
- Peanut chlorotic streak virus
- Strawberry vein banding virus

Closterovirus
- Beet yellow stunt virus

Beet yellows virus
"Broad bean severe chlorosis virus"
Carnation necrotic fleck virus
Citrus tristeza virus
Clover yellows virus
Wheat yellow leaf virus

[Cocksfoot mild mosaic virus group**]
Cocksfoot mild mosaic virus

Cucumovirus
"Clover blotch virus"
"Clover mild mosaic virus"
Cucumber mosaic virus
Cucumber mosaic virus [Banana mosaic virus strain]
Cucumber mosaic virus [Lily ringspot virus strain]
Peanut stunt virus
Peanut stunt virus [Robinia mosaic virus strain]
Soybean stunt virus
Tomato aspermy virus

Fabavirus
Broad bean wilt virus
Lamium mild mosaic virus

Geminivirus
"Subterranean clover stunt virus"

Ilarvirus
"Alstroemeria virus"
Citrus infectious variegation virus

Luteovirus
Alfalfa (Michigan) virus
"Banana bunchy top virus"
Barley yellow dwarf virus
Bean leaf roll virus
Bean leaf roll virus [chickpea stunt virus strain]
Beet western yellows virus
"Beet yellow net virus"
Carrot red leaf virus
"Celery yellow spot virus"
"Cotton anthocyanosis virus"
"Cowpea stunt virus"
"Filaree red leaf virus"
Groundnut rosette assistor virus
Indonesian soybean dwarf virus
Legume yellows virus
Malva yellows virus
Milk vetch dwarf virus
"Millet red leaf virus"
Potato leafroll virus

Potato leafroll virus [Tomato yellow top virus strain]
"Raspberry leaf curl virus"
Rice giallume virus
Soybean dwarf virus
Strawberry mild yellow edge virus
Subterranean clover red leaf virus
Tobacco necrotic dwarf virus
"Tobacco vein distorting virus"
"Tobacco yellow vein assistor virus"
"Tomato yellow net virus"

Nepovirus
Tobacco ringspot virus
Tobacco ringspot virus [Begonia strain]

Parsnip yellow fleck virus group
"Dandelion yellow mosaic virus"
Parsnip yellow fleck virus
Parsnip yellow fleck virus [Anthriscus yellows virus strain]

Pea enation mosaic virus group
Pea enation mosaic virus

Phytoreovirus group
Pea pimple pod virus

Potato spindle tuber viroid
Potato spindle tuber "virus"

Potexvirus
"Centrosema mosaic virus"
"Potato aucuba mosaic virus"

Potyvirus (1)
Alstroemeria mosaic virus
Araujia mosaic virus
Arracacha virus Y
"Artichoke latent virus"
Asystasia gangetica mottle virus
Azuki bean mosaic virus
Bean common mosaic virus
Bean yellow mosaic virus
Bean yellow mosaic virus [Canna mosaic virus strain]
Beet mosaic virus
Bidens mottle virus
Blackeye cowpea mosaic virus
Canavalia maritima mosaic virus
"Cardamom mosaic virus"
Carnation vein mottle virus
Carrot thin leaf virus
Celery mosaic virus

Celery mosaic virus [Celery crinkle leaf mosaic virus strain]
Chickpea distortion mosaic virus
"Chilli mosaic virus"
Clover yellow vein virus
Cocksfoot streak virus
Commelina mosaic virus
Corksfoot streak virus
Cowpea aphid-borne mosaic virus
Cowpea aphid-borne mosaic virus [Crotalaria mosaic virus strain]
Cowpea green vein banding virus
Crotalaria spectabilis yellow mosaic virus
Dasheen mosaic virus
Datura (Colombian) virus
Datura distortion mosaic virus
Desmodium mosaic virus
Dioscorea alata ring mottle virus
Dioscorea green-banding mosaic virus
Dioscorea trifida virus
Freesia mosaic virus
Garlic yellow streak virus
Groundnut eyespot virus
Guar symptomless virus
Guinea grass mosaic virus
Henbane mosaic virus
Hippeastrum mosaic virus
Hyacinth mosaic virus
Iris fulva mosaic virus
Iris mild mosaic virus
Iris severe mosaic virus
Leek yellow stripe virus
Lettuce mosaic virus
"Maclura mosaic virus"
"Malva vein clearing virus"
"Mungbean mosaic virus"
Narcissus yellow stripe virus
"Nerine virus"
Onion yellow dwarf virus
"Ornithogalum mosaic virus"
Papaya ringspot (type P & W) virus
Parsnip mosaic virus
Passiflora ringspot virus
Passionfruit woodiness virus
Pea seed-borne mosaic virus
Peanut green mosaic virus
Peanut mild mottle virus
Peanut mottle virus
Peanut stripe virus
Pepper mottle virus
Pepper veinal mottle virus
Peru tomato virus

Plum pox virus
Pokeweed mosaic virus
Potato virus A
Potato virus V
Potato virus Y
Potato virus Y [Potato virus C strain]
"Primula mosaic virus"
Primula mottle virus
Soybean mosaic virus
Sugarcane mosaic virus
Sugarcane mosaic virus [Abaca mosaic virus strain]
Sweet potato feathery mottle virus
Sweet potato vein mosaic virus
"Sweet potato virus A"
Swordbean distortion mosaic virus
Tamarillo mosaic virus
"Teasel mosaic virus"
Telfairia mosaic virus
Tigridia mosaic virus
Tobacco etch virus
Tobacco etch virus [Datura etch virus strain]
Tobacco vein mottling virus
Tobacco wilt virus
Tulip breaking virus
Turnip mosaic virus
Turnip mosaic virus [Anemone mosaic virus strain]
Turnip mosaic virus [Cabbage ring necrosis virus strain]
Turnip mosaic virus [Radish mosaic virus strain]
Turnip mosaic virus [Stock mosaic virus strain]
Ullucus mosaic virus
Vanilla mosaic virus
Watermelon mosaic virus 2
Yam mosaic virus
Zucchini yellow mosaic virus

Rhabdovirus (A)
Brocoli necrotic yellows virus
Lettuce necrotic yellows virus
Raspberry vein chlorosis virus
Strawberry crinkle virus
Strawberry crinkle virus [Strawberry lesion virus strain]
Strawberry crinkle virus [Strawberry vein chlorosis virus strain]

Rhabdovirus (B)
Lotus streak virus
Lucerne enation virus
Sonchus yellow net virus
Sowthistle yellow vein virus

Sobemovirus
"Blueberry shoestring virus"

Sowbane mosaic virus

Ungrouped

Ajuga virus
Alsike clover mosaic virus
Bean big vein virus
Bean leaf wilt virus
Bean yellow vein banding virus
Beet 41 yellows virus
Black raspberry necrosis virus
Blackberry dwarf virus
Broad bean (Indian) mosaic virus
Broad bean fireblight virus
Broad bean mild mosaic virus
Broad bean virus V
Cannabis streak virus
Carrot mottle virus
Cattleya mosaic virus
Chenopodium staudenvirus
Chrysanthemum good news mosaic virus
Cineraria mosaic virus
Citrus enation-woody gall virus
Clover (subterranean) mosaic virus
Coffee blister spot virus
Cotton curliness (Azerbaijan) virus
Crotalaria (Sann Hemp) mosaic virus
Datura virus
Delphinium net mosaic virus
Dolichos ringspot mottle virus
Elder mosaic virus
Gambir mosaic virus
Gooseberry vein banding virus
Groundnut mottle virus
Groundnut rosette virus
Holodiscus witches' broom virus
Hop split leaf blotch virus
Hopline pattern virus
Iris (beardless) mosaic virus
Iris (bulbous) mosaic virus
Laburnum mosaic virus
Lettuce speckles mottle virus
Lily rosette virus
Lycium virus
Maize dwarf virus
Maize leaf fleck virus
Mulberry mosaic virus
Nasturtium mosaic virus
Nasturtium ringspot virus
Onion mosaic virus
Physalis floridana yellow net virus
Poison hemlock ringspot virus
Potato leaf rolling mosaic virus

Potato veinal necrosis virus
Rape savoy virus
Raspberry leaf mottle virus
Raspberry leaf spot virus
Red currant vein banding virus
Rhubarb mosaic virus
Rubus yellow net virus
Soybean mild mosaic virus
Spinach yellow dwarf virus
Strawberry latent C virus
Strawberry mottle virus
Strawberry stunt virus
Sweet potato internal cork virus
Thimbleberry ringspot virus
Tobacco mottle virus
Tobacco yellow vein virus
Tomato dwarfing virus
Watercress mosaic virus

* " " Indicates tentative member of the group.
** [ ] Editor's provisional grouping not yet approved by the International Committee on Taxonomy of Viruses.

APPENDIX I b

AFFINITES OF APHID-TRANSMITTED VIRUSES
[in AAB & CMI/AAB Descr. Pl. Viruses (1970-88), Brown 1989 and Matthews 1982]

1. Viruses with rod-shaped or filamentous particles

A. Carlaviruses (potato virus S group)*

"Artichoke latent virus"
Carnation latent virus (# 61)**
Chrysanthemum B virus (# 110)
Elderberry carlavirus (# 263)
Helenium S virus (# 265)
Honeysuckle latent virus (# 289)
Hop American latent virus (# 262)
Hop latent virus (# 261)
Lily symptomless virus (# 96)
Narcissus latent virus (# 170)
Pea streak virus (# 112)
Potato M virus (# 87)
Potato S virus (# 60)
Red clover vein mosaic virus (# 22)
Shallot latent virus (# 250)

B. Closteroviruses (beet yellows virus group)

Beet yellows virus (# 13)
Beet yellow stunt virus (# 207)
Carnation necrotic fleck virus (# 136)
Citrus tristeza virus (# 33)
"Heracleum latent virus" (# 228)
Wheat yellow leaf virus (# 157)

C. Potexviruses (potato virus X group)

"Centrosema mosaic virus"
"Potato aucuba mosaic virus" (# 98)

D. Potyviruses (potato virus Y group)

- Subgroup (1)
"Artichoke latent virus"
Bean common mosaic virus (# 73;337)
Bean yellow mosaic virus (# 40)
Beet mosaic virus (# 53)
Bidens mottle virus (# 161)
Blackeye cowpea mosaic virus (# 305)
Carnation vein mottle (# 78)
Carrot thin leaf virus (# 218)
Celery mosaic virus (# 50)
Clover yellow vein virus (# 131)

Cocksfoot streak virus (# 59)
Cowpea aphid-borne mosaic virus (# 134)
Dasheen mosaic virus (# 191)
Henbane mosaic virus (# 95)
Hippeastrum mosaic virus (# 117)
Iris fulva mosaic virus (# 310)
Iris mild mosaic virus (# 116;324)
Iris severe mosaic virus (147;338)
Leek yellow stripe virus (# 240)
Lettuce mosaic virus (# 9)
"Maclura mosaic virus" (# 239)
"Mungbean mosaic virus"
Narcissus yellow strip virus (# 76)
Onion yellow dwarf virus (# 158)
Papaya ringspot virus (# 63;84;292)
Parsnip mosaic virus (# 91)
Passionfruit woodiness virus (# 122)
Pea seed-borne mosaic virus (# 146)
Peanut mottle virus (# 141)
Pepper mottle virus (# 253)
Pepper veinal mottle virus (# 104)
Peru tomato virus (# 255)
Plum pox virus (# 70)
Pokeweed mosaic virus (# 97)
Potato A virus (# 54)
Potato V virus (# 316)
Potato Y virus (# 37; 242)
"Primula mosaic virus"
Soybean mosaic virus (# 93)
Sugarcane mosaic virus (#88)
"Sweet potato virus A"
"Teasel mosaic virus"
Tobacco etch virus (# 55;258)
Tobacco vein mottling virus (# 325)
Tulip breaking virus (# 71)
Turnip mosaic virus (# 8)
Watermelon mosaic 2 virus (# 63;293)
Yam mosaic virus (# 314)
Zucchini yellow mosaic virus (# 282)

2. Viruses with isometric particles

A. Caulimoviruses (cauliflower mosaic virus group)

Carnation etched ring virus (# 182)
Cauliflower mosaic virus (# 24;243)
Dahlia mosaic virus (# 51)
Strawberry vein banding virus (# 219)

B. [Cocksfoot mild mosaic virus group]

Cocksfoot mild mosaic virus (# 107)

C. **Cucumoviruses (cucumber mosaic virus group)**

Cucumber mosaic virus (# 1;213)
Peanut stunt virus (# 92)
Tomato aspermy virus (# 79)

D. **Fabaviruses (broad bean wilt virus group)**

Broad bean wilt virus (# 81)

E. **Luteoviruses (barley yellow dwarf virus group)**

"Banana bunchy top virus"
Barley yellow dwarf virus (# 32)
Bean leaf roll virus (# 286)
Beet mild yellowing virus
Beet western yellows virus (# 89)
"Beet yellow net virus"
Carrot red leaf virus (# 249)
"Celery yellow spot virus"
"Cotton anthocyanosis virus"
"Filaree red leaf virus"
Malva yellows virus
"Millet red leaf virus"
Potato leafroll virus (# 36;291)
Potato leafroll virus [Tomato yellow top virus strain]
"Raspberry leaf curl virus"
Rice giallume virus
Soybean dwarf virus (# 179)
"Strawberry mild yellow edge virus"
"Subterranean clover stunt virus"
Tobacco necrotic dwarf virus (# 234)
"Tobacco vein distorting virus"
"Tomato yellow net virus"

F. **Nepoviruses (tobacco ringspot virus group)**

Tobacco ringspot virus (# 17;309)

G. **Parsnip yellow fleck virus group**

"Dandelion yellow mosaic virus"
Parsnip yellow fleck virus (# 129)

H. **Pea enation mosaic virus group**

Pea enation mosaic virus (# 25;257)

I. **Sobemoviruses (southern bean mosaic virus group)**

"Blueberry shoestring virus" (# 204)
Sowbane mosaic virus (# 64)

J. **Ungrouped**

Black raspberry necrosis virus (# 333)
Carrot mottle virus (# 137)

3. **Viruses with bacilliform particles**

A. **Alfalfa mosaic virus group**
Alfalfa mosaic virus (# 46;229)

B. **Plant rhabdoviruses**

- Subgroup (A)

Broccoli necrotic yellows virus (# 85)
Lettuce necrotic yellows virus (# 26)
Raspberry vein chlorosis virus (# 174)
Strawberry crinkle virus (# 163)

- Subgroup (B)

Sonchus yellow net virus (# 205)
Sowthistle yellow vein virus (# 62)

C. **Ungrouped**

Rubus yellow net virus (# 188)

4. **Viroids**

Potato spindle tuber viroid (# 66)

* Characters in parentheses indicate the English vernacular name.
** Number in parentheses, nos. 1-295 indicate the CMI/AAB while nos. 296-339 indicate the AAB Descriptions of Plant Viruses.
" " Indicates tentative member of the group.
[ ] Indicates CMI/AAB editors' provisional grouping not yet approved by the International Committee on Taxonomy of Viruses.

APPENDIX II a

APHID-TRANSMITTED VIRUSES RECORDED BY KENNEDY ET AL. 1962
[Index with English vernacular name (synonyms and strain names), international names and CMI/AAB numbers]

Abaca bunchy top virus (syn.)
   Banana bunchy top virus, "luteovirus"*
Abaca mosaic virus (str.)
   Sugarcane mosaic virus [Abaca mosaic virus strain], potyvirus (1)
Ajuga virus
   Ajuga virus, ungrouped
Anemone mosaic virus (str.)
   Turnip mosaic virus [Anemone mosaic virus strain], potyvirus (1)
Artichoke latent virus
   Artichoke latent virus, "carlavirus / potyvirus (1)"
Banana bunchy top virus
   Banana bunchy top virus, "luteovirus"
Banana mosaic virus (str.)
   Cucumber mosaic virus [Banana mosaic virus strain], cucumovirus
Barley yellow dwarf virus
   Barley yellow dwarf virus, luteovirus, CMI/AAB # 32
Bean (broad) wilt virus (syn.)
   Broad bean wilt virus, fabavirus, CMI/AAB # 81
Bean common mosaic virus
   Bean common mosaic virus, potyvirus (1), AAB # 337 (# 73)
Bean leaf wilt virus
   Bean leaf wilt virus, ungrouped
Bean yellow mosaic virus
   Bean yellow mosaic virus, potyvirus (1), CMI/AAB #40
Beet mosaic virus
   Beet mosaic virus, potyvirus (1), CMI/AAB # 53
Beet yellow net virus
   Beet yellow net virus, "luteovirus"
Beet yellows virus
   Beet yellows virus, closterovirus, CMI/AAB # 13
Beet 41 yellows virus
   Beet 41 yellow virus, ungrouped
Blackberry dwarf virus
   Blackberry dwarf virus, ungrouped
Cabbage black ring spot virus (syn.)
   Turnip mosaic virus, potyvirus (1), CMI/AAB # 8
Cabbage ring necrosis virus (str.)
   Turnip mosaic virus [Cabbage ring necrosis virus strain], potyvirus (1)
Canna mosaic virus (str.)
   Bean yellow mosaic virus [Canna mosaic virus strain], potyvirus (1)
Cannabis streak virus
   Cannabis streak virus, ungrouped

Cardamom mosaic virus
   Cardamom mosaic virus, "potyvirus (1)"
Carnation latent virus
   Carnation latent virus, carlavirus, CMI/AAB # 61
Carnation mosaic virus (syn.)
   Carnation vein mottle virus, potyvirus (1), CMI/AAB # 78
Carrot motley dwarf virus (syn.)
   Carrot mottle virus, ungrouped, CMI/AAB # 137
Cauliflower mosaic virus
   Cauliflower mosaic virus, caulimovirus, CMI/AAB # 243 (# 24)
Celery crinkle leaf mosaic virus (str.)
   Celery mosaic virus [Celery crinkle leaf mosaic virus strain], potyvirus (1)
Celery mosaic virus
   Celery mosaic virus, potyvirus (1), CMI/AAB # 50
Celery yellow spot virus
   Celery yellow spot virus, "luteovirus"
Centrosema mosaic virus
   Centrosema mosaic virus, "potexvirus"
Chenopodium staudenvirus
   Chenopodium staudenvirus, ungrouped
Chilli mosaic virus
   Chilli mosaic virus, "potyvirus (1)"
Chrysanthemum good news mosaic virus
   Chrysanthemum good news mosaic virus, ungrouped
Chrysanthemum vein mottle virus (str.)
   Chrysanthemum virus B [Chrysanthemum vein mottle virus strain], carlavirus
Chrysanthemum virus B
   Chrysanthemum virus B, carlavirus, CMI/AAB # 110
Cineraria mosaic virus
   Cineraria mosaic virus, ungrouped
Citrus tristeza virus
   Citrus tristeza virus, closterovirus, CMI/AAB # 33
Citrus vein enation virus
   Citrus vein enation virus, ungrouped
Clover (Alsike) mosaic virus
   Alsike clover mosaic virus, ungrouped
Clover (red) vein mosaic virus
   Red clover vein mosaic virus, carlavirus, CMI/AAB # 22
Clover (subterranean) mosaic virus
   Clover (subterranean) mosaic virus, ungrouped
Clover (subterranean) stunt virus
   Subterranean clover stunt virus, "luteovirus"
Cocksfoot streak virus
   Cocksfoot streak virus, potyvirus (1), CMI/AAB # 59
Coffee blister spot virus
   Coffee blister spot virus, ungrouped
Cotton anthocyanosis virus
   Cotton anthocyanosis virus, "luteovirus"
Cotton curliness (Azerbaijan) virus
   Cotton curliness (Azerbaijan) virus, ungrouped

Cowpea (Chavali) mosaic virus
   Crotalaria (Sann Hemp) mosaic virus, ungrouped
Crotalaria mosaic virus (str.)
   Cowpea aphid-borne mosaic virus [Crotalaria mosaic virus strain], potyvirus (1)
Cucumber mosaic virus
   Cucumber mosaic virus, cucumovirus, CMI/AAB # 213 (# 1)
Cucumber mosaic (Daphne) virus (syn.)
   Cucumber mosaic virus, cucumovirus, CMI/AAB # 213 (# 1)
Cucumber mosaic (Spinach) virus (syn.)
   Cucumber mosaic virus, cucumovirus, CMI/AAB # 213 (# 1)
Dahlia mosaic virus
   Dahlia mosaic virus, caulimovirus, CMI/AAB # 51
Dandelion yellow mosaic virus
   Dandelion yellow mosaic virus, "parsnip yellow fleck virus group"
Datura distortion mosaic virus
   Datura distortion mosaic virus, potyvirus (1)
Datura etch virus (str.)
   Tobacco etch virus [Datura etch virus strain], potyvirus (1)
Datura virus
   Datura virus, ungrouped
Delphinium net mosaic virus
   Delphinium net mosaic virus, ungrouped
Dock mosaic (New Zealand) virus (syn.)
   Dock mosaic (New Zealand) virus, "carlavirus"
Elder mosaic virus
   Elder mosaic virus, ungrouped
Filaree red leaf virus
   Filaree red leaf virus, "luteovirus"
Freesia mosaic virus
   Freesia mosaic virus, potyvirus (1)
Gambir mosaic virus
   Gambir mosaic virus, ungrouped
Gooseberry veinbanding virus
   Gooseberry vein banding virus, ungrouped
Groundnut mottle virus
   Groundnut mottle virus, ungrouped
Groundnut rosette virus
   Groundnut rosette virus, ungrouped
Henbane mosaic virus
   Henbane mosaic virus, potyvirus (1), CMI/AAB # 95
Holodiscus witches' broom virus
   Holodiscus witches' broom virus, ungrouped
Hop mosaic virus
   Hop mosaic virus, carlavirus, CMI/AAB # 241
Hop split leaf blotch virus
   Hop split leaf blotch virus, ungrouped
Iris (bearded) mosaic virus (syn.)
   Iris severe mosaic virus, potyvirus (1), AAB # 338 (# 147)
Iris (beardless) mosaic virus
   Iris (beardless) mosaic virus, ungrouped

Iris (bulbous) mosaic virus
   Iris (bulbous) mosaic virus, ungrouped
Iris fulva mosaic virus
   Iris fulva mosaic virus, potyvirus (1), AAB # 310
Laburnum infectious variegation mosaic virus (syn.)
   Laburnum mosaic virus, ungrouped
Lamium mild mosaic virus
   Lamium mild mosaic virus, fabavirus
Lettuce mosaic virus
   Lettuce mosaic virus, potyvirus (1), CMI/AAB # 9
Lily ring spot virus (str.)
   Cucumber mosaic virus [Lily ringspot virus strain], cucumovirus
Lily rosette virus
   Lily rosette virus, ungrouped
Lily symptomless virus
   Lily symptomless virus, carlavirus, CMI/AAB # 96
Lucerne mosaic virus (syn.)
   Alfalfa mosaic virus, alfalfa mosaic virus group, CMI/AAB # 229 (# 46)
Lycium virus
   Lycium virus, ungrouped
Maize dwarf virus
   Maize dwarf virus,ungrouped
Maize leaf fleck virus
   Maize leaf fleck virus, ungrouped
Malva yellows virus
   Malva yellows virus, luteovirus
Malva yellow vein virus (syn.)
   Malva vein clearing virus, "potyvirus (1)"
Millet red leaf virus
   Millet red leaf virus, "luteovirus"
Narcissus mosaic virus (syn.)
   Narcissus yellow stripe virus, potyvirus (1), CMI/AAB # 76
Oat yellow leaf virus (syn.)
   Barley yellow dwarf virus, luteovirus, CMI/AAB # 32
Onion mosaic virus
   Onion mosaic virus, ungrouped
Onion yellow dwarf virus
   Onion yellow dwarf virus, potyvirus (1), CMI/AAB # 158
Orchid (Cattleya) mosaic virus (syn.)
   Cattleya mosaic virus, ungrouped
Ornithogalum mosaic virus
   Ornithogalum mosaic virus, "potyvirus (1)"
Papaw mosaic virus (syn.)
   Papaya ringspot (type P) virus, potyvirus (1), CMI/AAB # 292 (# 84)
Papaw ring spot virus (syn.)
   Papaya ringspot (type P) virus, potyvirus (1), CMI/AAB # 292 (# 84)
Passionfruit woodiness virus
   Passionfruit woodiness virus, potyvirus (1), CMI/AAB # 122

Pea enation mosaic virus
   Pea enation mosaic virus, pea enation mosaic virus group, CMI/AAB # 257 (# 25)
Pea leaf roll virus (syn.)
   Bean leaf roll virus, luteovirus, CMI/AAB # 286
Pea mosaic virus (syn.)
   Bean yellow mosaic virus, potyvirus (1), CMI/AAB # 40
Pea mottle virus (syn.)
   Clover yellow mosaic virus, potexvirus, CMI/AAB # 111
Pea streak virus
   Pea streak virus, carlavirus, CMI/AAB # 112
Pepper mosaic virus (syn.)
   Chilli mosaic virus, "potyvirus (1)"
Pepper vein banding virus (syn.)
   Chilli mosaic virus, "potyvirus (1)"
Physalis floridana yellow net virus
   Physalis floridana yellow net virus, ungrouped
Poison hemlock ringspot virus
   Poison hemlock ringspot virus, ungrouped
Potato aucuba mosaic virus
   Potato aucuba mosaic virus, "potexvirus", CMI/AAB # 98
Potato leaf roll virus
   Potato leafroll virus, luteovirus, CMI/AAB # 291 (# 36)
Potato leaf rolling mosaic virus
   Potato leaf rolling mosaic virus, ungrouped
Potato spindle tuber virus
   Potato spindle tuber "virus", potato spindle tuber viroid, CMI/AAB # 66
Potato veinal necrosis virus
   Potato veinal necrosis virus, ungrouped
Potato virus A
   Potato virus A, potyvirus (1), CMI/AAB # 54
Potato virus C (str.)
   Potato virus Y [Potato virus C strain], potyvirus (1)
Potato virus M
   Potato virus M, carlavirus, CMI/AAB # 87
Potato virus S
   Potato virus S, carlavirus, CMI/AAB # 60
Potato virus Y
   Potato virus Y, potyvirus (1), CMI/AAB # 242 (# 37)
Primula mosaic virus
   Primula mosaic virus, "potyvirus (1)"
Radish mosaic virus (str.)
   Turnip mosaic virus [Radish mosaic virus strain], potyvirus (1)
Radish yellows virus (syn.)
   Beet western yellows virus, luteovirus, CMI/AAB # 89
Rape savoy virus
   Rape savoy virus, ungrouped
Raspberry (black) necrosis virus (syn.)
   Black raspberry necrosis virus, ungrouped, AAB # 333
Raspberry leaf curl virus
   Raspberry leaf curl virus, "luteovirus"

Raspberry leaf spot virus
   Raspberry leaf spot virus, ungrouped
Raspberry vein chlorosis virus
   Raspberry vein chlorosis virus, rhabdovirus (A), CMI/AAB # 174
Rhubarb mosaic virus
   Rhubarb mosaic virus, ungrouped
Rubus yellow net virus
   Rubus yellow net virus, ungrouped, CMI/AAB # 188
Shallot yellows virus (syn.)
   Onion yellow dwarf virus, potyvirus (1), CMI/AAB # 158
Soybean mosaic virus
   Soybean mosaic virus, potyvirus (1), CMI/AAB # 93
Spinach yellow dwarf virus
   Spinach yellow dwarf virus, ungrouped
Stock mosaic virus (str.)
   Turnip mosaic virus [Stock mosaic virus strain], potyvirus (1)
Strawberry crinkle virus
   Strawberry crinkle virus, rhabdovirus (A), CMI/AAB # 163
Strawberry lesion virus (str.)
   Strawberry crinkle virus [Strawberry lesion virus strain], rhabdovirus (A)
Strawberry mild yellow edge virus
   Strawberry mild yellow edge virus, luteovirus
Strawberry mottle virus
   Strawberry mottle virus, ungrouped
Strawberry stunt virus
   Strawberry stunt virus, ungrouped
Strawberry veinbanding virus
   Strawberry vein banding virus, caulimovirus, CMI/AAB # 219
Strawberry vein chlorosis virus (str.)
   Strawberry crinkle virus [Strawberry vein chlorosis virus strain], rhabdovirus (A)
Sugarcane mosaic virus
   Sugarcane mosaic virus, potyvirus (1), CMI/AAB # 88
Sweet potato feathery mottle virus
   Sweet potato feathery mottle virus, ungrouped
Sweet potato internal cork virus
   Sweet potato internal cork virus, ungrouped
Sweet potato virus A
   Sweet potato virus A, "potyvirus (1)"
Teasel mosaic virus
   Teasel mosaic virus, "potyvirus (1)"
Thimbleberry ring spot virus
   Thimbleberry ring spot virus, ungrouped
Tigridia mosaic virus
   Tigridia mosaic virus, potyvirus (1)
Tobacco etch virus
   Tobacco etch virus, potyvirus (1), CMI/AAB # 258 (# 55)
Tobacco mottle virus
   Tobacco mottle virus, ungrouped
Tobacco ring spot (Begonia) virus (str.)
   Tobacco ringspot virus [Begonia virus strain], nepovirus

Tobacco vein distorting virus
   Tobacco vein distorting virus, "luteovirus"
Tobacco wilt virus
   Tobacco wilt virus, potyvirus (1)
Tomato aspermy virus
   Tomato aspermy virus, cucumovirus, CMI/AAB # 79
Tomato dwarfing virus
   Tomato dwarfing virus, ungrouped
Tomato yellow net virus
   Tomato yellow net virus, "luteovirus"
Tomato yellow top virus (str.)
   Potato leafroll virus [Tomato yellow top virus strain], luteovirus
Tropaeolum mosaic virus (syn.)
   Nasturtium mosaic virus, ungrouped
Tropaeolum ring spot virus
   Nasturtium ringspot virus, ungrouped
Tulip breaking virus
   Tulip breaking virus, potyvirus (1), CMI/AAB # 71
Turnip yellow virus (syn.)
   Beet western yellows virus, luteovirus, CMI/AAB # 89
Watercress mosaic virus
   Watercress mosaic virus, ungrouped
Watermelon mosaic virus (syn.)
   Watermelon mosaic virus 2, potyvirus (1), CMI/AAB # 293 (# 63)

* " " Indicates tentative member of the group.

APPENDIX II b

APHID-TRANSMITTED VIRUSES DESCRIBED IN THE CMI/AAB (Nos. 1 to 295) and AAB (Nos. 296-339) Descriptions of Plant Viruses (1970 to 1988)

APHID-TRANSMITTED VIRUSES	DESCR. NO.
Alfalfa latent carlavirus*	211
Alfalfa mosaic virus (alfalfa mosaic virus group)	46;229
American hop latent carlavirus	262
Barley yellow dwarf luteovirus	32
Bean common mosaic potyvirus (1)**	73;337
Bean leaf roll luteovirus	286
Bean yellow mosaic potyvirus (1)	40
Beet mosaic potyvirus (1)	53
Beet western yellows luteovirus	89
Beet yellows closterovirus	13
Beet yellow stunt closterovirus	207
Bidens mottle potyvirus (1)	161
Blackeye cowpea mosaic potyvirus (1)	305
Black raspberry necrosis virus (ungrouped)	333
Blueberry shoestring virus (ungrouped)	204
Broad bean wilt fabavirus	81
Broccoli necrotic yellows rhabdovirus (A)	85
Carnation etched ring caulimovirus	182
Carnation latent carlavirus	61
Carnation necrotic fleck closterovirus	136
Carnation vein mottle potyvirus (1)	78
Carrot mottle virus (ungrouped)	137
Carrot red leaf luteovirus	249
Carrot thin leaf potyvirus (1)	218
Cauliflower mosaic caulimovirus	24;243
Celery mosaic potyvirus (1)	50
Chrysanthemum B carlavirus	110
Citrus tristeza closterovirus	33
Clover yellow vein potyvirus (1)	131
Cocksfoot mild mosaic virus [cocksfoot mild mosaic virus group]	107
Cocksfoot streak potyvirus (1)	59
Cowpea aphid-borne mosaic potyvirus (1)	134
Cucumber mosaic cucumovirus	1;213
Dahlia mosaic caulimovirus	51
Dasheen mosaic potyvirus (1)	191
Elderberry carlavirus	263
Helenium S carlavirus	265
Henbane mosaic potyvirus (1)	95
Heracleum latent "closterovirus"<	228
Hippeastrum mosaic potyvirus (1)	117
Honeysuckle latent carlavirus	289
Hop latent carlavirus	261
Hop mosaic carlavirus	241
Iris fulva mosaic potyvirus (1)	310

Iris mild mosaic potyvirus (1) 116;324
Iris severe mosaic
(= bearded iris mosaic) potyvirus (1) 147;338
Leek yellow stripe potyvirus (1) 240
Lettuce mosaic potyvirus (1) 9
Lettuce necrotic yellows rhabdovirus (A) 26
Lily symptomless carlavirus 96
Maclura mosaic "potyvirus (1)" 239
Narcissus latent carlavirus 170
Narcissus yellow stripe potyvirus (1) 76
Onion yellow dwarf potyvirus (1) 158
Papaya ringspot potyvirus (1) 63;84;292
Parsnip mosaic potyvirus (1) 91
Parsnip yellow fleck virus
(parsnip yellow fleck virus group) 129
Passionfruit woodiness potyvirus (1) 122
Pea enation mosaic virus
(pea enation mosaic virus group) 25;257
Pea seed-borne mosaic potyvirus (1) 146
Pea streak carlavirus 112
Peanut mottle potyvirus (1) 141
Peanut stunt cucumovirus 92
Pepper mottle potyvirus (1) 253
Pepper veinal mottle potyvirus (1) 104
Peru tomato potyvirus (1) 255
Plum pox potyvirus (1) 70
Pokeweed mosaic potyvirus (1) 97
Potato A potyvirus (1) 54
Potato aucuba mosaic "potexvirus" 98
Potato leafroll luteovirus 36;291
Potato M carlavirus 87
Potato S carlavirus 60
Potato spindle tuber viroid 66
Potato V potyvirus (1) 316
Potato Y potyvirus (1) 37;242
Raspberry vein chlorosis rhabdovirus (A) 174
Red clover vein mosaic carlavirus 22
Robinia mosaic cucumovirus> 65
Rubus yellow net virus (ungrouped) 188
Shallot latent caralavirus 250
Sonchus yellow net rhabdovirus (B) 205
Sowbane mosaic sobemovirus 64
Sowthistle yellow vein rhabdovirus (B) 62
Soybean dwarf luteovirus 179
Soybean mosaic potyvirus (1) 93
Strawberry crinkle rhabdovirus (A) 163
Strawberry vein banding caulimovirus 219
Sugarcane mosaic potyvirus (1) 88
Tobacco etch potyvirus (1) 55;258
Tobacco necrotic dwarf luteovirus 234
Tobacco ringspot nepovirus 17;309
Tobacco vein mottling potyvirus (1) 325
Tomato aspermy cucumovirus 79

Tulip breaking potyvirus (1)	71
Turnip mosaic potyvirus (1)	8
Watermelon mosaic 2 potyvirus (1)	63;293
Wheat yellow leaf closterovirus	157
Yam mosaic potyvirus (1)	314
Zucchini yellow mosaic potyvirus (1)	282

* Now regarded as a strain of pea streak carlavirus (112).

** Characters in parentheses after the group name indicate subgroup.

< Characters in " " indicates tentative member.

[ ] Editors' provisional grouping not yet approved by the International Committee on Taxonomy of Viruses.

> Now regarded as a strain of peanut stunt cucumovirus (92).

APPENDIX III a

SYNONYMY AND CORRECTIONS FOR THE INDEX OF APHIDS
(Kennedy et al. 1962)
[* Blank line means no change of name.]

Acyrthosiphon auctus (Wlk.)
   Acyrthosiphon auctum (Walker)
Acyrthosiphon bidentis Eastop

Acyrthosiphon caraganae Chol.
   Acyrthosiphon caraganae (Cholodkovsky)
Acyrthosiphon kondoi Shinji & K.
   Acyrthosiphon kondoi Shinji
Acyrthosiphon pelargonii rogersii (Theob.)
   Acyrthosiphon malvae ssp. rogersii (Theobald)
Acyrthosiphon pelargonii zerozalphum (Knowl.)
   Acyrthosiphon malvae (Mosley)
Acyrthosiphon pisum (Harris)

Acyrthosiphon primulae (Theob.)
   Microlophium primulae (Theobald)
Acyrthosiphon (Aulacorthum) solani (Kltb.)
   Aulacorthum solani (Kaltenbach)
Acyrthosiphon (Aulacorthum) solani aegopodii (Börn.)
   Aulacorthum solani ssp. aegopodii Börner
Acyrthosiphon (Liporrhinus) chelidonii (Kltb.)
   Acyrthosiphon chelidonii (Kaltenbach)
Acyrthosiphon (Metopolophium) dirhodum (Wlk.)
   Metopolophium dirhodum (Walker)
Acyrthosiphon (Rhodobium) porosum (Sand.)
   Rhodobium porosum (Sanderson)
Acyrthosiphon (Tlja) scariolae Nevs.
   Acyrthosiphon lactucae (Passerini)
Acyrthosiphon (Tlja) scariolae barri (Essig)
   Acyrthosiphon lactucae (Passerini)
Amphorophora agathonica Hottes

Amphorophora parviflori Hill

Amphorophora rossi (H. & F.)
   Amphorophora rossi Hottes & Frison
Amphorophora rubi idaei (Börn.)
   Amphorophora rubi ssp. idaei (Börner)
Amphorophora rubicumberlandi Knowlton & Allen

Amphorophora rubitoxica Knowlton

Amphorophora sensoriata Mason

Anoecia sp.

Anuraphis subterranea (Walker)

Aphis acetosae Linnaeus

Aphis acetosella Theob.
   Aphis nasturtii Kaltenbach
Aphis affinis del Guercio

Aphis ageratoidis Oestl.
   Aphis coreopsidis (Thomas)
Aphis apigraviolens Essig

Aphis armoraciae Cowen

Aphis ceanothi Clarke

Aphis chrysothamnicola Gill. & Palm.
   Aphis chrysothamnicola (Gillette & Palmer)
Aphis cirsiiacanthoidis Scop.
   Aphis fabae ssp. cirsiiacanthoidis Scopoli
Aphis confusa Walker

Aphis coweni Palmer

Aphis craccae Linnaeus

Aphis craccivora Koch

Aphis cuscutae Davis

Aphis cytisorum Hartig

Aphis decepta Hottes & Frison

Aphis eriogoni Cowen
   Braggia eriogoni (Cowen)
Aphis euonymi Fabr.
   Aphis fabae ssp. solanella Theobald
Aphis fabae Scopoli

Aphis fabae ssp. solanella Theobald

Aphis farinosa Gmelin

Aphis forbesi Weed

Aphis frangulae Kltb.

Aphis gambir (Born)
   Doralis gambir Börner ex Schneider [nomen nudum]
Aphis genistae Scopoli

Aphis glycines Matsumura

Aphis gossypii Glover

Aphis grossulariae Kaltenbach

Aphis helianthemi Ferrari

Aphis helianthi Monell

Aphis helianthi heraclella Davis
   Aphis helianthi Monell
Aphis idaei van der Goot

Aphis loti Kltb.
   Aphis craccivora Koch
Aphis medicaginis Koch
   Aphis craccivora Koch [extra-European records apply to this sp.]
Aphis nasturtii Kaltenbach

Aphis nerii Boyer de Fonscolombe

Aphis oenotherae Oestlund

Aphis oestlundi Gillette

Aphis ogilviei Theobald

Aphis pentstemonicola Gill. & Palm.
   Aphis penstemonicola Gillette & Palmer
Aphis plantaginis Goeze

Aphis pomi de Geer

Aphis praeterita Walker

Aphis rubicola Oestlund

Aphis ruborum (Börner)

Aphis rumicis Linnaeus
   Aphis fabae Scopoli [many records apply to this species]
Aphis sambuci Linnaeus

Aphis sambucifoliae Fitch
   Aphis sambuci Linnaeus
Aphis schneideri (Börner)

Aphis sedi Kaltenbach

Aphis serpylli Koch

Aphis spiraecola Patch

Aphis taraxacicola (Börner)

Aphis umbrella (Börner)

Aphis urticata Gmelin

Aphis verbasci Schrank

Brachycaudus helichrysi (Kaltenbach)

Brachycaudus spiraeae (Oestl.)
   Aphis spiraeae Oestlund [nomen dubium]
Brachycaudus cardui (Linnaeus)

Brachycaudus lychnidis (Linnaeus)

Brachycaudus (Acaudus) persicaecola (Boisd.)
   Brachycaudus persicae (Passerini)
Brachycolus cucubili (Pass.)
   Brachycolus cucubali (Passerini)
Brachycolus (Hayhurstia) atriplicis (L.)
   Hayhurstia atriplicis (Linnaeus)
Brachycolus (Semiaphis) heraclei Tak.
   Semiaphis heraclei (Takahashi)
Brevicoryne brassicae (Linnaeus)

Calaphis betulella Walsh

Calaphis (Callipterinella) callipterus (Htg.)
   Callipterinella callipterus (Hartig)
Capitophorus elaeagni (del Guercio)

Capitophorus hippophaes (Walker)

Carolinaia cyperi Ainslie

Cavariella aegopodii (Scopoli)

Cavariella pastinacae (Linnaeus)

Cavariella pustula Essig

Cavariella salicicola (Matsumura)

Cavariella theobaldi (Gillette & Bragg)

Ceruraphis eriophori (Walker)

Chaetosiphon fragaefolii (Cockerell)

Chaetosiphon minor Forbes
   Chaetosiphon minor (Forbes)
Chaetosiphon potentillae (Walker)

Chaetosiphon tetrarhodus (Wlk.)

Chaetosiphon tetrarhodum (Walker)
Chaetosiphon thomasi Hille Ris Lambers

Chaetosiphon thomasi jacobi H.R.L.
Chaetosiphon jacobi Hille Ris Lambers
Chaitophorus macrostachyae (Essig)

Chaitophorus populeti (Panzer)

Chaitophorus populicola (Thos.)
Chaitophorus populicola Thomas
Chaitophorus populifolii Essig
Chaitophorus populifolii (Essig)
Chaitophorus salicicola Essig

Chaitophorus viminalis Monell

Cinara (Cinarella) pinea (Mordw.)
Cinara pinea (Mordvilko)
Cinara (Cupressobium) juniperi (De Geer)
Cinara juniperi (de Geer)
Coloradoa rufomaculata (Wilson)

Coloradoa tanacetina (Walker)

Coloradoa (Lidaja) abrotani (Koch)
Coloradoa abrotani (Koch)
Cryptomyzus alboapicalis (Theobald)

Cryptomyzus galeopsidis (Kaltenbach)

Cryptomyzus korschelti Börner

Cryptomyzus ribis (Linnaeus)

Dactynotus ambrosiae (Thos.)
Uroleucon ambrosiae (Thomas)
Dactynotus chrysanthemi (Oestl.)
Uroleucon chrysanthemi (Oestlund)
Dactynotus cichoricola H.R.L.
Uroleucon cichorii (Koch)
Dactynotus erigeronensis (Thos.)
Uroleucon erigeronensis (Thomas)
Dactynotus gravicornis (Patch)
Uroleucon gravicornis (Patch)
Dactynotus impatiensicolens (Patch)
Uroleucon impatiensicolens (Patch)
Dactynotus katonkae (Hottes)
Uroleucon katonkae (Hottes)
Dactynotus obscurus (Koch)
Uroleucon obscurum (Koch)
Dactynotus rudbeckiae (Fitch)
Uroleucon rudbeckiae (Fitch)

Dactynotus sonchi (L.)
   Uroleucon sonchi (Linnaeus)
Dactynotus tanaceti (L.)
   Uroleucon tanaceti (Linnaeus)
Dactynotus (Uromelan) campanulae (Kltb.)
   Uroleucon campanulae (Kaltenbach)
Dactynotus (Uromelan) compositae (Theob.)
   Uroleucon compositae (Theobald)
Dactynotus (Uromelan) jaceae (L.)
   Uroleucon jaceae (Linnaeus)
Dactynotus (Uromelan) jaceae henrichi Börn.
   Uroleucon jaceae ssp. henrichi (Börner)
Dactynotus (Uromelan) rapunculoidis Börn.
   Uroleucon rapunculoidis (Börner)
Dactynotus (Uromelan) taraxaci (Kltb.)
   Uroleucon taraxaci (Kaltenbach)
Delphiniobium junackianum (Karsch)

Drepanaphis acerifoliae (Thomas)

Drepanosiphum platanoides (Schrank)

Dysaphis apiifolia (Theobald)

Dysaphis crataegi (Kaltenbach)

Dysaphis foeniculus (Theobald)

Dysaphis radicicola (Mordv.)
   Dysaphis radicola (Mordvilko)
Dysaphis tulipae (Boyer de Fonscolombe)

Dysaphis (Pomaphis) plantaginea (Pass.)
   Dysaphis plantaginea (Passerini)
Eriosoma lanigerum (Hausmann)

Eriosoma ulmi (Linnaeus)

Eulachnus rileyi (Williams)

Hoplochaitophorus quercicola (Monell)

Hyadaphis foeniculi (Passerini)

Hyadaphis (Lipaphis) erysimi (Kltb.)
   Lipaphis erysimi (Kaltenbach)
Hyadaphis (Lipaphis) erysimi pseudobrassicae Davis
   Lipaphis erysimi (Kaltenbach)
Hyadaphis (Lipaphis) fritzmuelleri (Börn.)
   Lipaphis fritzmuelleri Börner
Hyalopteroides humulis (Wlk.)
   Hyalopteroides humilis (Walker)

Hyalopterus pruni (Geoffroy)

Hysteroneura setariae (Thomas)

Kakimia purpurascens (Oestlund)

Longicaudus trirhodus (Walker)

Longiunguis indosacchari Kanakaraj David
   Melanaphis sacchari forma indosacchari (David)
Longiunguis sacchari (Zehnt.)
   Melanaphis sacchari (Zehntner)
Macrosiphoniella artemisiae (Boyer de Fonscolombe)

Macrosiphoniella millefolii (De G.)
   Macrosiphoniella millefolii (de Geer)
Macrosiphoniella tanacetaria (Kaltenbach)

Macrosiphoniella (Phalagomyzus) oblonga (Mordv.)
   Macrosiphoniella oblonga (Mordvilko)
Macrosiphoniella (Pyrethromyzus) sanborni (Gill.)
   Macrosiphoniella sanborni (Gillette)
Macrosiphum californicum (Clarke)

Macrosiphum daphnidis Börner

Macrosiphum euphorbiae (Thomas)

Macrosiphum gei (Koch)
   Macrosiphum euphorbiae (Thomas) [early records apply to this sp.]
Macrosiphum lilii (Monell)

Macrosiphum rosae (Linnaeus)

Macrosiphum (Ericobium) azaleae (Mason)
   Illinoia azaleae (Mason)
Macrosiphum (Oestlundia) davidsoni (Mason)
   Illinoia davidsoni (Mason)
Macrosiphum (Oestlundia) maxima (Mason)
   Illinoia maxima (Mason)
Macrosiphum (Oestlundia) rubicola (Oestl.)
   Illinoia rubicola (Oestlund)
Macrosiphum (Sitobion) avenae (F.)
   Sitobion avenae (Fabricius)
Macrosiphum (Sitobion) fragariae Wlk.
   Sitobion fragariae (Walker)
Macrosiphum (Sitobion) nigrinectaria Theob.
   Sitobion nigrinectarium (Theobald)
Megoura viciae Buckton

Metopeurum fuscoviride Stroyan

Microsiphum (Microsiphoniella) artemisiae (Gill.)
   Microsiphoniella artemisiae (Gillette)
Monellia caryae (Monell)

Monellia caryella (Fitch)

Myzaphis rosarum (Kaltenbach)

Myzocallis alhambra Davids.
   Myzocallis punctatus (Monell)
Myzocallis annulatus (Htg.)
   Tuberculatus annulatus (Hartig)
Myzocallis asclepiadis (Mon.)
   Myzocallis punctatus (Monell)
Myzus cerasi (Fabricius)

Myzus ornatus Laing

Myzus (Nectarosiphon) certus (Wlk.)
   Myzus certus (Walker)
Myzus (Nectarosiphon) ligustri (Mosl.)
   Myzus ligustri (Mosley)
Myzus (Nectarosiphon) persicae (Sulz.)
   Myzus persicae (Sulzer)
Myzus (Nectarosiphon) persicae dianthi (Schrank)
   Myzus persicae (Sulzer)
Myzus (Nectarosiphon) persicae dyslycialis F.P. Muller
   Myzus persicae (Sulzer)
Myzus (Nectarosiphon) varians Davids.
   Myzus varians Davidson
Myzus (Neotoxoptera) formosanus (Tak.)
   Myzus formosanus Takahashi
Myzus (Neotoxoptera) oliveri (Essig)
   Neotoxoptera oliveri (Essig)
Myzus (Neotoxoptera) violae (Perg.)
   Neotoxoptera violae (Pergande)
Myzus (Phorodon) cannabis (Pass.)
   Phorodon cannabis Passerini
Myzus (Phorodon) humuli (Schrank)
   Phorodon humuli (Schrank)
Myzus (Sciamyzus) ascalonicus Donc.
   Myzus ascalonicus Doncaster
Myzus (Sciamyzus) cymbalariae Stroyan
   Myzus cymbalariae Stroyan
Myzus (Trichosiphoniella) momonis Mats.
   Tuberocephalus momonis (Matsumura)
Nasonovia ribisnigri (Mosley)

Nasonovia (Hyperomyzus) lactucae (L.)
   Hyperomyzus lactucae (Linnaeus)
Nearctaphis bakeri (Cowen)

Neoceruraphis viburnicola (Gill.)
   Ceruraphis viburnicola (Gillette)
Neomyzus circumflexus (Buckt.)
   Aulacorthum circumflexum (Buckton)
Neosymydobius agrifoliae (Essig)

Ovatus (Utamphorophora) monardae (Wills.)
   Hyalomyzus monardae (Davis)
Pemphigus balsamiferae Wills.
   Pemphigus betae Doane
Pemphigus bursarius (Linnaeus)

Pentalonia nigronervosa Coquerel

Periphyllus negundinis (Thomas)

Periphyllus testudinatus (Thornton)
   Periphyllus testudinaceus (Fernie)
Prociphilus corrugatans (Sirrine)

Prociphilus fraxinifolii (Riley)

Pterocomma (Clavigerus) salicis (L.)
   Pterocomma salicis (Linnaeus)
Rhopalomyzus (Judenkoa) lonicerae (Sieb.)
   Rhopalomyzus lonicerae (Siebold)
Rhopalosiphoninus latysiphon (Davis)
   Rhopalosiphoninus latysiphon (Davidson)
Rhopalosiphoninus (Arthromyzus) staphyleae (Koch)
   Rhopalosiphoninus staphyleae (Koch)
Rhopalosiphoninus (Arthromyzus) staphyleae tulipaellus (Theob.)
   Rhopalosiphoninus staphyleae ssp. tulipaellus (Theobald)
Rhopalosiphum insertum (Walker)

Rhopalosiphum maidis (Fitch)

Rhopalosiphum nymphaeae (Linnaeus)

Rhopalosiphum padi (Linnaeus)

Schizaphis cyperi (v.d.G.)
   Schizaphis rotundiventris (Signoret)
Schizaphis graminum (Rondani)

Sipha flava (Forbes)

Sipha (Rungsia) maydis Pass.
   Sipha maydis Passerini
Sitomyzus (Glabromyzus) rhois (Mon.)
   Glabromyzus rhois (Monell)
Smynthurodes betae Westwood

Tetraneura ulmi (Linnaeus)

Therioaphis (Pterocallidium) maculata (Bckt.)
Therioaphis trifolii forma maculata (Buckton)
Therioaphis (Pterocallidium) trifolii (Mon.)
Therioaphis trifolii (Monell)
Thripsaphis ballii (Gillette)

Toxoptera aurantii (Boyer de Fonscolombe)

Toxoptera citricidus (Kirkaldy)

Tuberolachnus salignus (Gmelin)

APPENDIX III b

SYNONYMY AND CORRECTIONS OF APHID NAMES IN THE CMI/AAB
(1970-84) and AAB (1985-88) Description of plant viruses
[* Blank line means no change of name.]

Acyrthosiphon onobrychis (Boyer de Fonscolombe)
   Acyrthosiphon pisum (Harris)
Acyrthosiphon scariolae barri
   Acyrthosiphon lactucae (Passerini)
Acyrthosiphon sesbaniae David
   Acyrthosiphon gossypii Mordvilko
Acyrthosiphon solani (Kaltenbach)
   Aulacorthum solani (Kaltenbach)
Amphorophora agathonica Hottes

Amphorophora rubi (Kaltenbach)

Aphis apigraveolens Essig

Aphis apii Theobald
   Aphis fabae Scopoli
Aphis citricola van der Goot
   Aphis spiraecola Patch
Aphis coreopsidis (Thomas)

Aphis craccivora Koch

Aphis fabae Scopoli

Aphis ferruginea-striata Essig
   Dysaphis apiifolia (Theobald)
Aphis frangulae Kaltenbach

Aphis gossypii Glover

Aphis idaei van der Goot

Aphis medicaginis Koch
   Aphis craccivora Koch [extra-European records apply to this sp.]
Aphis middletonii Thomas
   Aphis armoraciae Cowen [records apply to this sp.]
Aphis nasturtii Kaltenbach

Aphis rubifolii (Thomas)

Aphis rumicis Linnaeus
   Aphis fabae Scopoli [records apply to this sp.]
Aphis spiraecola Patch

Aulacorthum circumflexum (Buckton)

Brachycaudus cardui (Linnaeus)

Brachycaudus helichrysi (Kaltenbach)

Brevicoryne brassicae (Linnaeus)

Cavariella aegopodii (Scopoli)

Cavariella capreae (Fabricius)
   Cavariella aegopodii Scopoli
Cavariella pastinacae (Linnaeus)

Cavariella theobaldi (Gillette & Bragg)

Chaetosiphon fragaefolii (Cockerell)

Chaetosiphon jacobi Hille Ris Lambers

Chaetosiphon tetrarhodus (Walker)
   Chaetosiphon tetrarhodum (Walker)
Chaetosiphon thomasi Hille Ris Lambers

Coloradoa rufomaculata (Wilson)

Dactynotus ambrosiae (Thomas)
   Uroleucon ambrosiae (Thomas)
Dactynotus escalanti (Knowlton)
   Uroleucon escalanti (Knowlton)
Doralis fabae (Scopoli)
   Aphis fabae Scopoli
Hydaphis foeniculi (Passerini)
   Hyadaphis foeniculi (Passerini)
Hyalopteroides humilis (Walker)

Hyalopterus atriplicis (Linnaeus)
   Hayhurstia atriplicis (Linnaeus)
Hyperomyzus carduellinus (Theobald)

Hyperomyzus lactucae (Linnaeus)

Hysteroneura setariae (Thomas)

Macrosiphoniella sanborni (Gillette)

Macrosiphum ambrosiae (Thomas)
   Uroleucon ambrosiae (Thomas)
Macrosiphum avenae (Fabricius)
   Sitobion avenae (Fabricius)
Macrosiphum euphorbiae (Thomas)

Macrosiphum pelargonii Kaltenbach
   Aulacorthum solani (Kaltenbach)
Macrosiphum pisi (Harris)
   Acyrthosiphon pisum (Harris)
Macrosiphum rosae (Linnaeus)

Macrosiphum solanifolii (Ashmead)
   Macrosiphum euphorbiae (Thomas)
Masonaphis pepperi MacGillivray
   Illinoia pepperi (MacGillivray)
Metopolophium dirhodum (Walker)

Micromyzus formosanus (Takahashi)
   Neotoxoptera formosana (Takahashi)
Myzus ascalonicus Doncaster

Myzus certus (Walker)

Myzus circumflexus (Buckton)
   Aulacorthum circumflexum (Buckton)
Myzus convolvuli (Kaltenbach)
   Aulacorthum solani (Kaltenbach)
Myzus ornatus Laing

Myzus persicae (Sulzer)

Nasonovia lactucae (Linnaeus)
   Hyperomyzus lactucae (Linnaeus)
Ovatus crataegarius (Walker)

Phorodon humuli (Schrank)

Rhopalosiphoninus latysiphon (Davidson)

Rhopalosiphoninus tulipaella Theobald
   Rhopalosiphoninus staphyleae ssp. tulipaellus (Theobald)
Rhopalosiphum insertum (Walker)

Rhopalosiphum maidis (Fitch)

Rhopalosiphum melliferum Hottes
   Hyadaphis foeniculi (Passerini)
Rhopalosiphum padi (Linnaeus)

Schizaphis graminum (Rondani)

Therioaphis ononidis (Kaltenbach)
   Therioaphis trifolii forma maculata (Buckton) [records apply to this sp.]
Toxoptera aurantii (Boyer de Fonscolombe)

Toxoptera citricidus (Kirkaldy)

Toxoptera graminum (Rondani)
   Schizaphis graminum (Rondani)
Yezabura tulipae (Boyer de Fonscolombe)
   Dysaphis tulipae (Boyer de Fonscolombe)

APPENDIX IV

LIST OF APHID TRANSMISSIBILITY BY APHIDS

Nonpersistent Type (N)

Ajuga virus
Alfalfa mosaic virus
Alfalfa mosaic virus [Viburnum strain]
Alsike clover mosaic virus
Alstroemeria mosaic virus
*"Alstroemeria virus"
American hop latent virus
Araujia mosaic virus
Arracacha virus Y
"Artichoke latent virus"
Asystasia gangetica mottle virus
Azuki bean mosaic virus
Bean common mosaic virus
Bean yellow mosaic virus
Bean yellow mosaic virus [Canna mosaic virus strain]
Beet mosaic virus
Bidens mottle virus
Blackeye cowpea mosaic virus
"Broad bean severe chlorosis virus"
Broad bean wilt virus
"Cardamom mosaic virus"
Carnation latent virus
Carnation vein mottle virus
Carrot thin leaf virus
Cattleya mosaic virus
Cauliflower mosaic virus
Celery mosaic virus
Celery mosaic virus [Celery crinkle leaf mosaic virus strain]
"Centrosema mosaic virus"
Chenopodium staudenvirus
Chickpea distortion mosaic virus
"Chilli mosaic virus"
"Chinese yam necrotic mosaic virus"
Chrysanthemum good news mosaic virus
Chrysanthemum virus B
Chrysanthemum virus B [Chrysanthemum vein mottle virus strain]
Cineraria mosaic virus
Citrus enation-woody gall virus
Citrus tristeza virus
Clover (subterranean) mosaic virus
"Clover blotch virus"
Clover yellow vein virus
Cocksfoot streak virus
Commelina mosaic virus

Corksfoot streak virus
Cowpea aphid-borne mosaic virus
Cowpea aphid-borne mosaic virus [Crotalaria mosaic virus strain]
Cowpea green vein banding virus
Crotalaria spectabilis yellow mosaic virus
Cucumber mosaic virus
Cucumber mosaic virus [Banana mosaic virus strain]
Cucumber mosaic virus [Lily ringspot virus strain]
Dahlia mosaic virus
Dasheen mosaic virus
Datura (Colombian) virus
Datura distortion mosaic virus
Datura virus
Desmodium mosaic virus
Dioscorea alata ring mottle virus
Dioscorea green-banding mosaic virus
Dioscorea trifida virus
"Dock (New Zealand) mosaic virus"
Elderberry carlavirus
Freesia mosaic virus
Garlic yellow streak virus
Groundnut eyespot virus
Guar symptomless virus
Guinea grass mosaic virus
Helenium virus S
Henbane mosaic virus
Hippeastrum mosaic virus
Holodiscus witches' broom virus
Honeysuckle latent virus
Hop latent virus
Hop mosaic virus
Hop split leaf blotch virus
Hyacinth mosaic virus
Iris (beardless) mosaic virus
Iris (bulbous) mosaic virus
Iris fulva mosaic virus
Iris mild mosaic virus
Iris severe mosaic virus
Lamium mild mosaic virus
Leek yellow stripe virus
Lettuce mosaic virus
Lily symptomless virus
Lily symptomless virus [Alstroemeria virus strain]
Lycium virus
"Maclura mosaic virus"
"Malva vein clearing virus"
Muskmelon vein necrosis virus
Narcissus latent virus
Narcissus yellow stripe virus
Nasturtium mosaic virus
Nasturtium ringspot virus

Nerine latent virus
"Nerine virus"
Onion yellow dwarf virus
"Ornithogalum mosaic virus"
Papaya ringspot (type P & W) virus
Parsnip mosaic virus
Passiflora ringspot virus
Passionfruit woodiness virus
Pea seed-borne mosaic virus
Pea streak virus
Pea streak virus [Alfalfa latent virus strain]
Peanut green mosaic virus
Peanut mild mottle virus
Peanut mottle virus
Peanut stripe virus
Peanut stunt virus
Peanut stunt virus [Robinia mosaic virus strain]
Pepper mottle virus
Pepper veinal mottle virus
Peru tomato virus
Plum pox virus
Poison hemlock ringspot virus
Pokeweed mosaic virus
"Potato aucuba mosaic virus"
Potato leaf rolling mosaic virus
Potato spindle tuber "virus"
Potato virus A
Potato virus M
Potato virus S
Potato virus V
Potato virus Y
Potato virus Y [Potato virus C strain]
"Primula mosaic virus"
Primula mottle virus
Raspberry leaf spot virus
Red clover vein mosaic virus
Rubus yellow net virus
Shallot latent virus
Sowbane mosaic virus
Sowthistle yellow vein virus
Soybean mild mosaic virus
Soybean mosaic virus
Soybean stunt virus
Spinach yellow dwarf virus
Strawberry mottle virus
Strawberry vein banding virus
Sugarcane mosaic virus
Sugarcane mosaic virus [Abaca mosaic virus strain]
Sweet potato feathery mottle virus
Sweet potato internal cork virus
Sweet potato vein mosaic virus
"Sweet potato virus A"

Swordbean distortion mosaic virus
Tamarillo mosaic virus
"Teasel mosaic virus"
Telfairia mosaic virus
Thimbleberry ringspot virus
Tigridia mosaic virus
Tobacco etch virus
Tobacco etch virus [Datura etch virus strain]
Tobacco ringspot virus
Tobacco ringspot virus [Begonia strain]
Tobacco vein mottling virus
Tobacco wilt virus
Tomato aspermy virus
Tomato dwarfing virus
Tulip breaking virus
Turnip mosaic virus
Turnip mosaic virus [Anemone mosaic virus strain]
Turnip mosaic virus [Cabbage ring necrosis virus strain]
Turnip mosaic virus [Radish mosaic virus strain]
Turnip mosaic virus [Stock mosaic virus strain]
Ullucus mosaic virus
Vanilla mosaic virus
Watercress mosaic virus
Watermelon mosaic virus 2
Yam mosaic virus
Zucchini yellow mosaic virus

Persistent Type (P)
Alfalfa (Michigan) virus
"Banana bunchy top virus"
Barley yellow dwarf virus
Bean big vein virus
Bean leaf roll virus
Bean leaf roll virus [chickpea stunt virus strain]
Bean yellow vein banding virus
Beet western yellows virus
"Beet yellow net virus"
Blackberry dwarf virus
Carrot mottle virus
Carrot red leaf virus
"Celery yellow spot virus"
"Cotton anthocyanosis virus"
"Cowpea stunt virus"
"Filaree red leaf virus"
Groundnut mottle virus
Groundnut rosette assistor virus
Groundnut rosette virus
Indonesian soybean dwarf virus
Legume yellows virus
Lettuce necrotic yellows virus
Lettuce speckles mottle virus
Lily rosette virus

Lily symptomless virus
Lotus streak virus
Lucerne enation virus
Maize leaf fleck virus
Malva yellows virus
Milk vetch dwarf virus
"Millet red leaf virus"
Pea enation mosaic virus
Pea pimple pod virus
Physalis floridana yellow net virus
Potato leafroll virus
Potato leafroll virus [Tomato yellow top virus strain]
"Raspberry leaf curl virus"
Raspberry vein chlorosis virus
Rice giallume virus
Soybean dwarf virus
Strawberry crinkle virus
Strawberry crinkle virus [Strawberry lesion virus strain]
Strawberry crinkle virus [Strawberry vein chlorosis virus strain]
Strawberry latent C virus
Strawberry mild yellow edge virus
Subterranean clover red leaf virus
"Subterranean clover stunt virus"
Tobacco mottle virus
Tobacco necrotic dwarf virus
"Tobacco vein distorting virus"
"Tobacco yellow vein assistor virus"
Tobacco yellow vein virus
"Tomato yellow net virus"

Semipersistent Type (S)
Beet yellow stunt virus
Beet yellows virus
Black raspberry necrosis virus
"Blueberry shoestring virus"
Carnation etched ring virus
Carnation necrotic fleck virus
"Clover mild mosaic virus"
Clover yellows virus
"Dandelion yellow mosaic virus"
Gooseberry vein banding virus
Heracleum latent virus
Mirabilis mosaic virus
Parsnip yellow fleck virus
Parsnip yellow fleck virus [Anthriscus yellows virus strain]
"Rubus yellow net virus"
Strawberry mottle virus
Strawberry vein banding virus
Wheat yellow leaf virus

Unknown Type (U)
Bean leaf wilt virus

Beet yellows virus
Beet 41 yellows virus
Broad bean (Indian) mosaic virus
Broad bean fireblight virus
Broad bean mild mosaic virus
Broad bean virus V
Brocoli necrotic yellows virus
Canavalia maritima mosaic virus
Cannabis streak virus
Cauliflower mosaic virus
Citrus infectious variegation virus
Cocksfoot mild mosaic virus
Coffee blister spot virus
Cotton curliness (Azerbaijan) virus
Crotalaria (Sann Hemp) mosaic virus
Delphinium net mosaic virus
"Dock mosaic virus"
Dolichos ringspot mottle virus
Elder mosaic virus
Gambir mosaic virus
Hopline pattern virus
Laburnum mosaic virus
Maize dwarf virus
Mulberry mosaic virus
"Mungbean mosaic virus"
Onion mosaic virus
Peanut chlorotic streak virus
Potato veinal necrosis virus
Rape savoy virus
Raspberry leaf mottle virus
Red currant vein banding virus
Rhubarb mosaic virus
Sonchus yellow net virus
Strawberry crinkle virus
Strawberry stunt virus
Sugarcane mosaic virus [Abaca mosaic virus strain]

* " " Indicates tentative transmission type.
N Nonpersistent transmission type.
P Persistent transmission type.
S Semipersistent transmission type.
U Unknown transmission type.

APPENDIX V

SELECTED APHID-TRANSMITTED VIRUS SYNONYMS

Alfalfa mosaic virus
- Alfalfa virus 1 & 2
- Lucerne mosaic virus
- Marmor medicaginis
- Potato calico virus

Alsike clover mosaic virus
- Alsike clover virus 1
- Alsike virus 1
- Marmor fastidiens
- Trifolium virus 3

Artichoke latent virus
- Artichoke (California) latent virus
- Marmor cynarae

Azuki bean mosaic virus
- Adzuki bean mosaic virus
- Bean mosaic virus

Banana bunchy top virus
- Abaca bunchy top virus
- Banana virus 1
- Musa virus 1
- Musavirus deformans
- Plantain bunchy top virus

Barley yellow dwarf virus
- Cereal yellow dwarf virus
- Hordeum virus nanescens
- Oat red leaf virus

Bean common mosaic virus
- Bean mosaic virus
- Bean virus 1
- Phaseolus virus 1

Bean leaf roll virus
- Legume yellow virus
- Pea leaf roll virus
- Pea tip yellowing virus
- Pea top yellows virus

Bean yellow mosaic virus
- Bean virus 2
- Gladiolus mosaic virus
- Pea mosaic virus
- Phaseolus virus 2

Bean yellow mosaic virus [Canna mosaic virus strain]
- Canna indica mosaic virus

Cannavirus maculans

Beet mosaic virus
Beta virus 2
Marmor betae

Beet western yellows virus
Malva yellows virus
Radish yellows virus
Turnip mild yellows virus
Turnip yellows virus

Beet yellow net virus
Beet vein yellowing virus
Betavirus reticulosum

Beet yellows virus
Beta virus 4
Corium betae
Virus de la jaunisse de la betterave

Black raspberry necrosis virus
52 V virus

Blackberry dwarf virus
Nanus loganobacci
Raspberry virus 2D
Rubus virus 5
Rubusvirus deformans

Blackeye cowpea mosaic virus
Bean yellow mosaic virus [Cowpea strain]
Cowpea aphid-borne mosaic virus [Nigeria & Kenya isolates]

Blueberry shoestring virus
Vaccinium (blueberry) shoestring virus

Broad bean wilt virus
Nasturtium ringspot virus
P.O. pea streak virus
Parsley virus 3
Petunia ringspot virus

Cardamom mosaic virus
Cardamom (lesser) mosaic virus
Cardamom "katte" disease virus

Carnation latent virus
Aphidophilus dianthi

Carrot mottle virus
Carrot motley dwarf virus (in part)

Cauliflower mosaic virus
Brassica virus 3
Broccoli mosaic virus
Cabbage mosaic virus
Cabbage virus B

Celery mosaic virus
Apium virus 1
Marmor umbelliferarum
Western celery mosaic virus

Chilli mosaic virus
Chilli (pepper) mosaic virus
Pepper mosaic virus
Pepper vein banding virus

Chrysanthemum virus B
Chrysanthemum dwarf mottle virus
Chrysanthemum mild mosaic virus
Chrysanthemum mild mottle virus
Chrysanthemum necrotic mottle virus
Chrysanthemum virus 2
Gynura latent virus

Citrus infectious variegation virus
Citrus infectious chlorosis virus
Citrus infectious mottling virus
Citrus variegation virus

Citrus tristeza virus
Citrus bud union decline virus
Citrus quick decline virus
Citrusvirus vastans

Clover yellow vein virus
Pea necrosis virus

Cocksfoot mild mosaic virus
Mildes Mosaik des Knaulgrases

Cocksfoot streak virus
Cocksfoot mosaic virus

Cowpea aphid-borne mosaic virus
Cowpea common mosaic virus
Cowpea mosaic virus (in part)

Crotalaria (Sann Hemp) mosaic virus
Cowpea (Chavali) mosaic virus
Marmor vignae var. catjang

Cucumber mosaic virus
Cucumber virus 1

Cucumis virus 1
Marmor cucumeris
Spinach blight virus
Tomato fern leaf virus

Dahlia mosaic virus
Dahlia virus 1
Dahliavirus maculans
Marmor dahliae

Dandelion yellow mosaic virus
Taraxacumvirus flavescens

Datura distortion mosaic virus
Datura virus 3
Marmor daturae

Dioscorea alata ring mottle virus
Beet mosaic virus-yam isolate

Dock (New Zealand) mosaic virus
Rumex obtusifolius virus
Rumex virus 2
Rumexvirus maculans

Dock mosaic virus
Dock infectious chlorosis virus
Rumex virus 1

Elderberry virus
Elderberry virus A

Freesia mosaic virus
Freesia virus 1

Gooseberry vein banding virus
Gooseberry mosaic virus

Groundnut rosette virus
Arachis virus 1
Arachisvirus rosettans
Marmor arachidis
Peanut rosette virus

Henbane mosaic virus
Atropa mild mosaic virus
Hyoscyamus virus I
Hyoscyamus virus III
Marmor hyoscyami

Heracleum latent virus
HV2

Hippeastrum mosaic virus
Amaryllis mosaic virus

Holodiscus witches' broom virus
Holodiscus virus 1
Holodiscusvirus everriculosum
Nanus holodisci
Ocean spray witches' broom virus

Honeysuckle latent virus
Lonicera latent virus

Hop line pattern virus
Hop latent virus X

Hop mosaic virus
Hop "latent" virus (European)
Hop false nettlehead virus
Hop rod shaped virus
Humulus virus 1

Iris (bulbous) mosaic virus
Iris grey mosaic virus
Iris mosaic virus
Iris stripe virus
Irisvirus maculans
Marmor iridis

Iris mild mosaic virus
Iris latent mosaic virus
Iris mosaic virus

Iris severe mosaic virus
Bearded iris mosaic virus
Beardless iris mosaic virus
Iris mosaic virus
Iris yellow mosaic virus
Irisgrijsvirus

Lettuce mosaic virus
Lactuca virus 1
Marmor lactucae

Lily rosette virus
Lilium virus 1
Liliumvirus rosettans
Lily yellow flat virus

Lily symptomless virus
Lilium occultum
Liliumvirus occultum

Lily curl stripe virus
Lily latent mosaic virus
Marmor mite

Maize leaf fleck virus
Corium zeae
Zeavirus variegans

Malva vein clearing virus
Malva green mosaic virus
Malva virus 1
Malva yellow vein mosaic virus
Marmor malvae
Marmor virus 1

Milk vetch dwarf virus
Astragalus dwarf virus

Mulberry mosaic virus
Morusvirus maculans
Mulberry virosis virus

Narcissus latent virus
Irisbontvirus

Narcissus yellow stripe virus
Narcissus "greys" virus

Nasturtium mosaic virus
Tropaeolum mosaic virus

Nasturtium ringspot virus
Nasturtium ring mosaic virus
Tropaeolum ringspot virus

Nerine latent virus
Hippeastrum latent virus

Nerine virus
Nerine yellow stripe virus

Onion yellow dwarf virus
Allium virus 1
Marmor cepae

Ornithogalum mosaic virus
Marmor scillearum
Ornithogalumvirus maculans

Papaya mosaic virus
Papaw mosaic virus

Papaya ringspot (type P) virus
Papaya (papaw) distortion ringspot virus

Papaya (papaw) mosaic virus

Papaya ringspot (type W) virus
Specific watermelon mosaic virus

Passiflora ringspot virus
Passionfruit ringspot virus

Pea enation mosaic virus
Enation pea mosaic virus
Pea virus 1
Pisum virus 1

Pea seed-borne mosaic virus
Pea fizzle top virus
Pea leaf roll mosaic virus
Pea leaf rolling mosaic virus
Pea leaf rolling virus

Pea streak virus
Marmor iners
Pea streak virus 1
Sweet clover virus (Steinkleevirus)
Wisconsin pea streak

Peanut green mosaic virus
Peanut chlorotic mottle virus

Peanut mottle virus
Groundnut mottle virus
Peanut mild mosaic virus
Peanut severe mosaic virus

Peanut stunt virus
Groundnut stunt virus

Peanut stunt virus [Robinia mosaic virus strain]
Black locust true mosaic virus
Echtes obinienmosaik-virus

Pepper mottle virus
Chilli mottle virus

Peru tomato virus
Peruvian tomato virus
Virus Peruano del tomate

Plum pox virus
Annulus pruni
Prunus virus 7
Sarka virus

Potato aucuba mosaic virus
Potato calico virus

Potato virus F
Potato virus G
Tuber blotch virus

Potato leafroll virus
Potato phloem necrosis virus

Potato virus A
Marmor solani
Potato mild mosaic virus
Potato virus P
Solanum virus 3

Potato virus M
Kartoffel-K-virus
Kartoffel-rollmosaik-virus
Potato interveinal mosaic virus (American)
Potato leaf rolling mosaic virus
Potato paracrinkle virus
Potato virus E
Solanum virus 11
Solanum virus 7

Potato virus V
Potato virus Y [Potato virus B strain]
Potato virus Y [Potato virus CAB strain]

Potato virus Y
Marmor upsilon
Potato acropetal necrosis virus
Potato severe mosaic virus
Solanum virus 2
Tobacco vein-banding virus

Potato virus Y [Potato virus C strain]
Di Vernon streak virus
Potato streak virus B
Solanum virus 5

Primula mosaic virus
Marmor primulae
Primula obconica mosaic virus
Primulavirus maculans

Raspberry leaf curl virus
Raspberry curl

Raspberry vein chlorosis virus
Raspberry chlorotic net virus

Red clover vein mosaic virus
Marmor trifolii

Pea streak virus 1
Trifolium virus 2
Wisconsin pea stunt virus

Red currant vein banding virus
Adernbanderung
Nerfbandmozaiek
Nervova mosaika

Rubus yellow net virus
"Raspberry yellow mosaic virus"

Sonchus yellow net virus
Sowthistle yellow net virus

Sowbane mosaic virus
Apple latent virus 2
Chenopodium mosaic virus
Chenopodium star mottle virus

Soybean dwarf virus
"Subterranean clover red leaf virus"

Soybean mosaic virus
Soja virus 1
Soybean virus 1

Strawberry crinkle virus
Fragaria virus 2
Marmor fragariae
Strawberry latent virus
Strawberry lesion virus
Strawberry virus 3
Strawberry virus 4
Vein chlorosis virus

Strawberry latent C virus
Demaree and Marcus type 2

Strawberry mild yellow edge virus
Strawberry virus 2

Strawberry mottle virus
Mild crinkle
Strawberry type 1 virus
Strawberry virus 1

Strawberry stunt virus
Fragaria virus 5
Fragariavirus cupuliformans
Nanus cupuliformans

Strawberry vein banding virus
Chiloensis vein banding virus

Eastern vein banding virus
Yellow vein banding virus

Subterranean clover red leaf virus
"Soybean dwarf virus"

Subterranean clover stunt virus
Clover stunt virus

Sugarcane mosaic virus
Grass mosaic virus
Marmor sacchari
Saccharum virus 1

Sweet potato feathery mottle virus
Sweet potato chlorotic leaf spot virus

Sweet potato internal cork virus
Sweet potato cork virus

Sweet potato virus A
Sweet potato mosaic virus A

Swordbean distortion mosaic virus
Swordbean mosaic virus

Tamarillo mosaic virus
Potato Y virus

Teasel mosaic virus
Marmor dipsacum

Tobacco etch virus
Datura Z mosaic virus
Marmor erodens
Nicotiana virus 7
Tobacco virus 13
Tomato etch virus

Tobacco ringspot virus
Annulus tabaci
Nicotiana virus 12
Nicotiana 12
Tobacco ringspot virus 1

Tomato aspermy virus
Chrysanthemum aspermy virus
Chrysanthemum mosaic virus
Cucumis virus 1 [Chrysanthemum strain]
Lycopersicon virus 7

Tulip breaking virus
Lily mottle virus

Marmor tulipae
Tulip mosaic virus
Tulipa virus 1
Tulipavirus vulgare

Turnip mosaic virus
Brassica virus 1
Brassica virus 2 & 4
Cabbage black ringspot virus
Cabbage virus A
Daikon mosaic virus
Horseradish mosaic virus
Marmor brassicae
Radish P & R viruses

Turnip mosaic virus [Cabbage ring necrosis virus strain]
Brassicavirus annulolaedens

Turnip mosaic virus [Radish mosaic virus strain]
Marmor raphani
Raphanus virus maculans

Turnip mosaic virus [Stock mosaic virus strain]
Marmor matthiolae
Matthiola virus
Stock breaking virus

Watermelon mosaic virus 2
General watermelon mosaic virus

Zucchini yellow mosaic virus
Muskmelon yellow stunt virus

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